

### Gene Screen

The invention relates to a screen for the identification of genes which show regulated expression in response to carbon source utilisation.

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Colorectal cancer is a cancer which occurs in the large intestine and rectum. The colon can be divided into effectively four sections; the ascending colon; the transverse colon; the descending colon; and the sigmoid colon. Most colorectal cancers arise in the sigmoid colon and develop from "polyps" which can grow for  
10 several years before becoming cancerous. The early detection of these pre-cancerous growths is obviously desirable since removal of the polyps is a very effective means to stem the progress of disease.

There are various types of colorectal cancer. Most cancers of this type are  
15 adenocarcinomas which are malignant growths which begin in the epithelial cells which line the colon and rectum. Other cancers of the colon and rectum include gastrointestinal stromal tumours and lymphomas. In some examples the patient can be asymptomatic and for this reason it is important that screening is undertaken to identify those patients in which pre-cancerous polyps are forming. However, some  
20 patients do present with symptoms and these include rectal bleeding, diarrhoea, constipation, abdominal pain, and general weakness.

As mentioned above, regular screening is by far the most effective way of controlling this disease since removal of pre-cancerous polyps by surgery can effectively cure  
25 any disease before it is initiated. Currently, diagnostic tests include the use of colonoscopy, which allows a doctor to examine the rectum and colon; faecal blood analysis to check for any bleeding from the bowel and rectal area although this test is not directly diagnostic for cancerous lesion in its own right; and sigmoidoscopy which is similar to colonoscopy but only investigates the lower bowel area.  
30 Typically, patients with a family history of colorectal cancer can be expected to have

a colonoscopy every 5 years or so and a blood stool check on a yearly basis from about the age of 40.

5 The treatment of colorectal cancer usually involves invasive surgery to remove polyps and/or malignant growths. If the cancer has developed beyond the polyp stage then more extensive surgery is required which can result in removal of part of the bowel and surrounding lymph nodes. In the situation where a cancer necessitates extensive surgery a colostomy stoma may be required, at least for a period, to allow the bowel to recover from surgery. Surgery in the rectal region is more complicated  
10 and is largely dependent on how far the disease has progressed. In some cases the surgery can damage nerves which control sexual and urinary functions. In advanced stage colorectal cancers metastatic lesions may require removal and in about 15% of cases the lesions are in the liver which requires removal of large parts of the liver. The surgical removal of polyps and/or cancerous growths leads to a good prognosis  
15 for patients. In some cases surgery is followed by a course of chemotherapy (for colon cancer) and chemotherapy and radiation therapy (rectal cancer) to remove any cancer cells not detected during surgery. The chemotherapeutic agents typically used to treat colorectal cancer include 5-fluorouracil, leucovorin, irinotecan and capecitabine.

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It is apparent that the early detection of cells which are pre-cancerous is highly desirable since in most cases surgery to remove these cells results in a very good prognosis for patients. Diagnostic tests which use the detection of cancer markers as an early indicator of cancer are known in the art.

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For example, EP1355149 describes gene expression profiles from colorectal samples to provide a "finger print" expression profile as an indication of whether a patient is susceptible to the development of colorectal cancer or indeed if malignant growth has already been initiated. The disclosure in EP1355149 is directed to the use of  
30 microarrays to compare transformed and non-transformed tissue gene expression in a global sense.

WO02/059609 also describes a gene screen which utilises expression profiles in breast and colorectal cancer. A comparison is made between “normal” and “abnormal” samples in patients to provide a global picture of gene expression in these samples as an indicator of particular genes which are either over-expressed or abrogated between samples. Both EP1355149 and WO02/059609 take a shot gun approach to screening for target genes which can be used either as a diagnostic tool or as a target for the development of new chemotherapeutic agents.

- 10 The present invention provides a targeted screen for genes the expression of which may be altered in a response to carbon source. The invention makes use of the differences in expression profiles between normal and diseased tissue as a consequence of differences in metabolic state between cancer cells and normal cells due in part to carbon source utilisation by these respective cell types. The epithelial
- 15 cells which line the colon and rectum metabolise butyrate as a carbon source for energy transduction via glycolysis. The main carbon source utilised by tumour cells is glucose. Consequently, expression profiles between these cell types are different due to the differences in carbon source metabolism.
- 20 We have identified a large number of potential markers of colorectal cancer which have utility with respect to the early diagnosis of disease and as targets for the development of novel chemotherapeutic agents. Moreover, this assay has broader applicability to conditions resulting from dysfunction of the bowel (e.g colitis, ulcerative colitis, diversion colitis, Crohn’s disease and irritable bowel syndrome. In
- 25 addition the assay provides a screening tool for fibre consumption and as an assay for colon microflora functionality (the effectiveness of fermentation of specific fibres) .

According to an aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated first cell sample

30 comprising comparing the gene expression profiles between said first cell sample with a second reference cell sample wherein said first cell sample has been grown in

the presence of the carbon source butyrate, or a related carbon source from which butyrate is derived, either directly or indirectly, and comparing said expression profile with the expression profile in said second reference cell sample which has not been grown in the presence of butyrate, or said related carbon source.

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According to a further aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated biological sample comprising the steps of:

- i) providing
  - 10 a) a cell growth preparation comprising a first cell sample derived from at least one region of the colon; cell growth media; and a carbon source wherein said carbon source is butyrate; and
  - b) a cell growth preparation comprising a second cell sample derived from an equivalent region of the colon; cell growth media; and a
  - 15 carbon source which is not butyrate;
- ii) extracting nucleic acid from said first and second cell samples; and
- iii) comparing the gene expression profile in said first cell sample with the gene expression profile in said second cell sample.

20 In a preferred method of the invention said first and second cell samples are derived from the ascending colon.

In an alternative preferred method of the invention said first and second cell samples are derived from the transverse colon.

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In a further preferred method of the invention said first and second samples are derived from the descending colon.

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In a still further preferred method of the invention said first and second samples are derived from the sigmoid region of the colon. Preferably said cell samples are derived from the rectal region of the colon.



In a further preferred method of the invention said first and second cell samples comprise epithelial cells.

5 In a preferred method of the invention said carbon source which is not butyrate is glucose.

10 In a still further preferred method of the invention said nucleic acid molecule which shows altered expression is selected from the group as represented by the nucleic acid sequences shown in Table 1, or nucleic acid molecules which hybridise to the sequences presented Table 1. Preferably said nucleic acid molecules hybridise under stringent hybridisation conditions.

15 According to a further aspect of the invention there is provided a method for the detection of at least one nucleic acid molecule associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- 20 ii) contacting said sample with a ligand which binds at least one nucleic acid molecule as represented by the nucleic acid sequence selected from the group consisting of:
  - a) a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1;
  - 25 b) a nucleic acid molecule which hybridises to nucleic acid molecules as defined in (a);
  - c) a nucleic acid molecule that is degenerate as a consequence of the genetic code to the nucleic acid molecule represented in (a) and (b);
- 30 iii) detecting the presence of at least one nucleic acid molecule in said sample.

In a preferred method of the invention said animal is human.

In a further preferred method of the invention said colorectal cancer is  
5 adenocarcinoma.

In a preferred method of the invention said ligand is a nucleic acid molecule adapted to anneal to said nucleic acid molecule which is indicative of colorectal cancer.

10 It will be apparent to the skilled person that a number of nucleic acid based assay systems are available which can be adapted to detect nucleic acid molecules as hereindisclosed. For example quantitative polymerase chain reaction assays, *in situ* hybridisation, northern blots.

15 According to a further aspect of the invention there is provided a method for the detection of at least one polypeptide associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- ii) contacting said sample with at least one ligand which ligand  
20 specifically binds at least one polypeptide encoded by a nucleic acid molecule as represented by the nucleic acid sequence shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue; and
- 25 iii) detecting the presence of at least one polypeptide in said sample.

In a preferred method of the invention said animal is human.

In a further preferred embodiment of the invention said ligand is an antibody,  
30 preferably a monoclonal antibody, or at least the effective binding part thereof.

Methods which utilise antibodies to detect the presence of a polypeptide in a biological sample are well known in the art and include ELISA's, western blot and immunofluorescence.

5 According to a further aspect of the invention there is provided the use of at least one polypeptide, or variant sequence thereof, encoded by a nucleic acid molecule(s) as represented by the nucleic acid sequences as shown in Table 1, as a target for the screening of agents which modulate the activity of said polypeptide.

10 According to a yet further aspect of the invention there is provided a method to screen for agents which modulate the activity of at least one gene associated with the initiation and/or progression of colorectal cancer comprising the steps of:

- 15 i) forming a preparation comprising at least one polypeptide wherein said polypeptide is encoded by a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue as represented by the amino acid sequences shown in Table 1, and at least one agent to be tested; and
- 20 ii) determining the activity of said agent with respect to activity of said polypeptide.

In a preferred method of the invention said polypeptide is expressed by a cell wherein said cell is transformed or transfected with said nucleic acid molecule. Preferably  
25 said nucleic acid molecule is part of a vector adapted for recombinant expression of said nucleic acid molecule. Preferably said vector is provided with a promoter which enables the expression of said nucleic acid molecule to be regulated.

In a preferred method of the invention said cell is derived from the colon, preferably  
30 said cell is an epithelial cell which lines said colon.

In a further preferred method of the invention said agent is an antibody, preferably a monoclonal antibody or modified antibody, or at least the effective binding part thereof.

- 5 Antibodies, also known as immunoglobulins, are protein molecules which usually have specificity for foreign molecules (antigens). Immunoglobulins (Ig) are a class of structurally related proteins consisting of two pairs of polypeptide chains, one pair of light (L) (low molecular weight) chain ( $\kappa$  or  $\lambda$ ), and one pair of heavy (H) chains ( $\gamma$ ,  $\alpha$ ,  $\mu$ ,  $\delta$  and  $\epsilon$ ), all four linked together by disulphide bonds. Both H and L chains  
10 have regions that contribute to the binding of antigen and that are highly variable from one Ig molecule to another. In addition, H and L chains contain regions that are non-variable or constant.

- The L chains consist of two domains. The carboxy-terminal domain is essentially  
15 identical among L chains of a given type and is referred to as the "constant" (C) region. The amino terminal domain varies from L chain to L chain and contributes to the binding site of the antibody. Because of its variability, it is referred to as the "variable" (V) region.

- 20 The H chains of Ig molecules are of several classes,  $\alpha$ ,  $\mu$ ,  $\sigma$ ,  $\alpha$ , and  $\gamma$  (of which there are several sub-classes). An assembled Ig molecule consisting of one or more units of two identical H and L chains, derives its name from the H chain that it possesses. Thus, there are five Ig isotypes: IgA, IgM, IgD, IgE and IgG (with four sub-classes based on the differences in the 'constant' regions of the H chains, i.e., IgG1, IgG2,  
25 IgG3 and IgG4). Further detail regarding antibody structure and their various functions can be found in, Using Antibodies: A laboratory manual, Cold Spring Harbour Laboratory Press.

In a preferred method of the invention said fragment is a Fab fragment.

In a further preferred method of the invention said antibody is selected from the group consisting of: F(ab')<sub>2</sub>, Fab, Fv and Fd fragments; and antibodies comprising CDR3 regions.

- 5 Preferably said fragments are single chain antibody variable regions (scFv's) or domain antibodies. If a hybridoma exists for a specific monoclonal antibody it is well within the knowledge of the skilled person to isolate scFv's from mRNA extracted from said hybridoma via RT PCR. Alternatively, phage display screening can be undertaken to identify clones expressing scFv's. Domain antibodies are the smallest
- 10 binding part of an antibody (approximately 13kDa). Examples of this technology is disclosed in US6, 248, 516, US6, 291, 158, US6,127, 197 and EP0368684 which are all incorporated by reference in their entirety.

- A modified antibody, or variant antibody and reference antibody, may differ in amino acid sequence by one or more substitutions, additions, deletions, truncations which
- 15 may be present in any combination. Among preferred variants are those that vary from a reference polypeptide by conservative amino acid substitutions. Such substitutions are those that substitute a given amino acid by another amino acid of like characteristics. The following non-limiting list of amino acids are considered
- 20 conservative replacements (similar): a) alanine, serine, and threonine; b) glutamic acid and aspartic acid; c) asparagine and glutamine d) arginine and lysine; e) isoleucine, leucine, methionine and valine and f) phenylalanine, tyrosine and tryptophan. Most highly preferred are variants which show enhanced biological activity.

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Preferably said antibody is a humanised or chimeric antibody.

A chimeric antibody is produced by recombinant methods to contain the variable region of an antibody with an invariant or constant region of a human antibody.

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A humanised antibody is produced by recombinant methods to combine the complementarity determining regions (CDRs) of an antibody with both the constant (C) regions and the framework regions from the variable (V) regions of a human antibody.

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Chimeric antibodies are recombinant antibodies in which all of the V-regions of a mouse or rat antibody are combined with human antibody C-regions. Humanised antibodies are recombinant hybrid antibodies which fuse the complementarity determining regions from a rodent antibody V-region with the framework regions from the human antibody V-regions. The C-regions from the human antibody are also used. The complementarity determining regions (CDRs) are the regions within the N-terminal domain of both the heavy and light chain of the antibody to where the majority of the variation of the V-region is restricted. These regions form loops at the surface of the antibody molecule. These loops provide the binding surface between the antibody and antigen.

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Antibodies from non-human animals provoke an immune response to the foreign antibody and its removal from the circulation. Both chimeric and humanised antibodies have reduced antigenicity when injected to a human subject because there is a reduced amount of rodent (i.e. foreign) antibody within the recombinant hybrid antibody, while the human antibody regions do not elicit an immune response. This results in a weaker immune response and a decrease in the clearance of the antibody. This is clearly desirable when using therapeutic antibodies in the treatment of human diseases. Humanised antibodies are designed to have less "foreign" antibody regions and are therefore thought to be less immunogenic than chimeric antibodies.

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In an alternative preferred method of the invention said agent is a polypeptide or a peptide. Preferably said polypeptide or peptide is modified.

In a preferred method of the invention said peptide is at least 6 amino acid residues in length. Preferably the length of said peptide/polypeptide is selected from the group

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consisting of: at least 7 amino acid residues; 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 amino acid residues in length. Alternatively the length of said peptide/polypeptide is at least 20 amino acid residues; 30; 40; 50; 60; 70; 80; 90; or 100 amino acid residues in length.

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It will be apparent to one skilled in the art that modification to the amino acid sequence of peptide agents could enhance the binding and/or stability of the peptide with respect to its target sequence. In addition, modification of the peptide may also increase the *in vivo* stability of the peptide thereby reducing the effective amount of peptide necessary to inhibit the activity of a target polypeptide. This would advantageously reduce undesirable side effects which may result *in vivo*. Alternatively or preferably, said modification includes the use of modified amino acids in the production of recombinant or synthetic forms of peptides. It will be apparent to one skilled in the art that modified amino acids include, by way of example and not by way of limitation, 4-hydroxyproline, 5-hydroxylysine, N<sup>6</sup>-acetyllysine, N<sup>6</sup>-methyllysine, N<sup>6</sup>,N<sup>6</sup>-dimethyllysine, N<sup>6</sup>,N<sup>6</sup>,N<sup>6</sup>-trimethyllysine, cyclohexylalanine, D-amino acids, ornithine. Other modifications include amino acids with a C<sub>2</sub>, C<sub>3</sub> or C<sub>4</sub> alkyl R group optionally substituted by 1, 2 or 3 substituents selected from halo (e.g. F, Br, I), hydroxy or C<sub>1</sub>-C<sub>4</sub> alkoxy. Modifications also include, by example and not by way of limitation, acetylation and amidation.

In a preferred embodiment of the invention said peptide sequence is acetylated. Preferably said acetylation is to the amino terminus of said peptide.

25 In a further preferred embodiment of the invention said peptide sequence is amidated. Preferably said amidation is to the carboxyl-terminus of said peptide.

It will also be apparent to one skilled in the art that peptides could be modified by cyclisation. Cyclisation is known in the art, (see Scott *et al* Chem Biol (2001), 8:801-815; Gellerman *et al* J. Peptide Res (2001), 57: 277-291; Dutta *et al* J. Peptide

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Res (2000), 8: 398-412; Ngoka and Gross J Amer Soc Mass Spec (1999), 10:360-363.

In a further preferred method of the invention said agent is nucleic acid molecule.

5 Preferably said nucleic acid molecule is an aptamer or a modified aptamer. In an alternative preferred method of the invention said nucleic acid is an inhibitory RNA (RNAi) molecule. Alternatively said nucleic acid molecule is an antisense nucleic acid molecule.

10 Nucleic acids have both linear sequence structure and a three dimensional structure which in part is determined by the linear sequence and also the environment in which these molecules are located. Conventional therapeutic molecules are small molecules, for example, peptides, polypeptides, or antibodies, which bind target molecules to produce an agonistic or antagonistic effect. It has become apparent that  
15 nucleic acid molecules also have potential with respect to providing agents with the requisite binding properties which may have therapeutic utility. These nucleic acid molecules are typically referred to as aptamers. Aptamers are small, usually stabilised, nucleic acid molecules which comprise a binding domain for a target molecule. A screening method to identify aptamers is described in US 5,270,163,  
20 which is incorporated by reference. Aptamers are typically oligonucleotides which may be single stranded oligodeoxynucleotides, oligoribonucleotides, or modified oligodeoxynucleotide or oligoribonucleotides.

The term "modified" encompasses nucleotides with a covalently modified base  
25 and/or sugar. For example, modified nucleotides include nucleotides having sugars which are covalently attached to low molecular weight organic groups other than a hydroxyl group at the 3' position and other than a phosphate group at the 5' position. Thus modified nucleotides may also include 2' substituted sugars such as 2'-O-methyl-; 2-O-alkyl; 2-O-allyl; 2'-S-alkyl; 2'-S-allyl; 2'-fluoro-; 2'-halo or 2'-azido-  
30 ribose, carbocyclic sugar analogues a-anomeric sugars; epimeric sugars such as arabinose, xyloses or lyxoses, pyranose sugars, furanose sugars, and sedoheptulose.



Modified nucleotides are known in the art and include by example and not by way of limitation; alkylated purines and/or pyrimidines; acylated purines and/or pyrimidines; or other heterocycles. These classes of pyrimidines and purines are known in the art and include, pseudoisocytosine; N<sup>4</sup>, N<sup>4</sup>-ethanocytosine; 8-hydroxy-N<sup>6</sup>-methyladenine; 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil; 5-fluorouracil; 5-bromouracil; 5-carboxymethylaminomethyl-2-thiouracil; 5-carboxymethylaminomethyl uracil; dihydrouracil; inosine; N<sup>6</sup>-isopentyl-adenine; 1-methyladenine; 1-methylpseudouracil; 1-methylguanine; 2,2-dimethylguanine; 2-methyladenine; 2-methylguanine; 3-methylcytosine; 5-methylcytosine; N<sup>6</sup>-methyladenine; 7-methylguanine; 5-methylaminomethyl uracil; 5-methoxy amino methyl-2-thiouracil;  $\beta$ -D-mannosylqueosine; 5-methoxycarbonylmethyluracil; 5-methoxyuracil; 2-methylthio-N<sup>6</sup>-isopentenyladenine; uracil-5-oxyacetic acid methyl ester; pseudouracil; 2-thiocytosine; 5-methyl-2-thiouracil, 2-thiouracil; 4-thiouracil; 5-methyluracil; N-uracil-5-oxyacetic acid methylester; uracil 5-oxyacetic acid; queosine; 2-thiocytosine; 5-propyluracil; 5-propylcytosine; 5-ethyluracil; 5-ethylcytosine; 5-butyluracil; 5-pentyluracil; 5-pentylcytosine; and 2,6-diaminopurine; methylpseudouracil; 1-methylguanine; 1-methylcytosine.

The aptamers of the invention are synthesized using conventional phosphodiester linked nucleotides and synthesized using standard solid or solution phase synthesis techniques which are known in the art. Linkages between nucleotides may use alternative linking molecules. For example, linking groups of the formula P(O)S, (thioate); P(S)S, (dithioate); P(O)NR'<sup>2</sup>; P(O)R'; P(O)OR<sup>6</sup>; CO; or CONR'<sup>2</sup> wherein R is H (or a salt) or alkyl (1-12C) and R<sup>6</sup> is alkyl (1-9C) is joined to adjacent nucleotides through -O- or -S-. The binding of aptamers to a target polypeptide is readily testable.

An alternative nucleic acid molecule is a so called RNAi molecule. A recent technique to specifically ablate gene function is through the introduction of double stranded RNA, also referred to as inhibitory RNA (RNAi), into a cell which results

in the destruction of mRNA complementary to the sequence included in the RNAi molecule. The RNAi molecule comprises two complementary strands of RNA (a sense strand and an antisense strand) annealed to each other to form a double stranded RNA molecule. The RNAi molecule is typically derived from exonic or coding sequence of the gene which is to be ablated. Recent studies suggest that RNAi molecules ranging from 100-1000bp derived from coding sequence are effective inhibitors of gene expression. Surprisingly, only a few molecules of RNAi are required to block gene expression which implies the mechanism is catalytic. The site of action appears to be nuclear as little if any RNAi is detectable in the cytoplasm of cells indicating that RNAi exerts its effect during mRNA synthesis or processing.

In a preferred method of the invention there is provided a cassette comprising a nucleic acid molecule, or part thereof, wherein said molecule is selected from the group consisting of:

- i) a nucleic acid molecule represented by the nucleic acid sequence shown in Table 1 ;
- ii) a nucleic acid molecule which hybridises to the sequence in (i) above and which encodes a polypeptide which initiates or promotes transformation of colon cells; or
- iii) a nucleic acid molecule which is degenerate because of the genetic code to the sequences defined in (i) and (ii) above, wherein said cassette is adapted such that both sense and antisense nucleic acid molecules are transcribed from said cassette.

In a preferred method of the invention said cassette is provided with at least two promoters adapted to transcribe both sense and antisense strands of said nucleic acid molecule.

In a further preferred method of the invention said cassette comprises a nucleic acid molecule wherein said molecule comprises a first part linked to a second part wherein said first and second parts are complementary over at least part of their

sequence and further wherein transcription of said nucleic acid molecule produces an RNA molecule which forms a double stranded region by complementary base pairing of said first and second parts.

- 5 In a preferred embodiment of the invention said first and second parts are linked by at least one nucleotide base.

In a preferred embodiment of the invention said first and second parts are linked by 2, 3, 4, 5, 6, 7, 8, 9 or at least 10 nucleotide bases.

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In a further preferred embodiment of the invention the length of the RNAi molecule is between 100bp-1000bp. More preferably still the length of RNAi is selected from 100bp; 200bp; 300bp; 400bp; 500bp; 600bp; 700bp; 800bp; 900bp; or 1000bp. More preferably still said RNAi is at least 1000bp.

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In an alternative preferred method of the invention the RNAi molecule is between 15bp and 25bp, preferably said molecule is 21bp. Preferably said cassette is part of a vector.

- 20 According to a further aspect of the invention there is provided an antibody identified by the method according to the invention for use as a pharmaceutical.

According to a further aspect of the invention there is provided a polypeptide or peptide identified by the method according to the invention for use as a  
25 pharmaceutical.

According to a further aspect of the invention there is provided a nucleic acid molecule identified by the method according to the invention for use as a  
30 pharmaceutical.

In a preferred embodiment of the invention said nucleic acid molecule is an aptamer.

In an alternative preferred embodiment of the invention said nucleic acid molecule is an inhibitory RNA.

- 5 In a further alternative preferred embodiment of the invention said nucleic acid molecule is an antisense nucleic acid molecule.

In a preferred embodiment of the invention said pharmaceutical further comprises a a diluent, carrier or excipient.

- 10 When administered, the therapeutic compositions of the present invention are administered in pharmaceutically acceptable preparations. Such preparations may routinely contain pharmaceutically acceptable concentrations of salt, buffering agents, preservatives, compatible carriers, supplementary immune potentiating agents such as adjuvants and cytokines and optionally other therapeutic agents, such as  
15 chemotherapeutic agents.

- The therapeutics of the invention can be administered by any conventional route, including injection or by gradual infusion over time. The administration may, for example, be oral, intravenous, intraperitoneal, intramuscular, intracavity,  
20 subcutaneous, or transdermal. When antibodies are used therapeutically, a preferred route of administration is by pulmonary aerosol. Techniques for preparing aerosol delivery systems containing antibodies are well known to those of skill in the art. Generally, such systems should utilize components which will not significantly impair the biological properties of the antibodies, such as the paratope binding  
25 capacity (see, for example, Sciarra and Cutie, "Aerosols," in Remington's Pharmaceutical Sciences, 18th edition, 1990, pp 1694-1712; incorporated by reference). Those of skill in the art can readily determine the various parameters and conditions for producing antibody aerosols without resort to undue experimentation. When using antisense preparations of the invention, slow intravenous administration  
30 is preferred.

The compositions of the invention are administered in effective amounts. An “effective amount” is that amount of a composition that alone, or together with further doses, produces the desired response. In the case of treating a particular disease, such as cancer, the desired response is inhibiting the progression of the disease. This may involve only slowing the progression of the disease temporarily, although more preferably, it involves halting the progression of the disease permanently. This can be monitored by routine methods or can be monitored according to diagnostic methods of the invention discussed herein.

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Such amounts will depend, of course, on the particular condition being treated, the severity of the condition, the individual patient parameters including age, physical condition, size and weight, the duration of the treatment, the nature of concurrent therapy (if any), the specific route of administration and like factors within the knowledge and expertise of the health practitioner. These factors are well known to those of ordinary skill in the art and can be addressed with no more than routine experimentation. It is generally preferred that a maximum dose of the individual components or combinations thereof be used, that is, the highest safe dose according to sound medical judgment. It will be understood by those of ordinary skill in the art, however, that a patient may insist upon a lower dose or tolerable dose for medical reasons, psychological reasons or for virtually any other reasons.

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The pharmaceutical compositions used in the foregoing methods preferably are sterile and contain an effective amount for producing the desired response in a unit of weight or volume suitable for administration to a patient. The response can, for example, be determined by measuring the physiological effects of the composition, such as regression of a tumour, decrease of disease symptoms, modulation of apoptosis, etc.

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The doses of pharmaceutical agent administered to a subject can be chosen in accordance with different parameters, in particular in accordance with the mode of

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administration used and the state of the subject. Other factors include the desired period of treatment. In the event that a response in a subject is insufficient at the initial doses applied, higher doses (or effectively higher doses by a different, more localized delivery route) may be employed to the extent that patient tolerance  
5 permits.

In general, doses of pharmaceutical are formulated and administered in doses between 1 ng and about 500mg, and between 10 ng and 100mg, according to any standard procedure in the art. Where nucleic acids are employed, doses of between  
10 1 ng and 0.1mg generally will be formulated and administered according to standard procedures. Other protocols for the administration of compositions will be known to one of ordinary skill in the art, in which the dose amount, schedule of injections, sites of injections, mode of administration (e.g., intra-tumoral) and the like vary from the foregoing. Administration of pharmaceutical compositions to mammals other than  
15 humans, e.g. for testing purposes or veterinary therapeutic purposes, is carried out under substantially the same conditions as described above. A subject, as used herein, is a mammal, preferably a human, and including a non-human primate, cow, horse, pig, sheep, goat, dog, cat or rodent.

20 When administered, the pharmaceutical preparations of the invention are applied in pharmaceutically-acceptable amounts and in pharmaceutically-acceptable compositions. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredients. Such preparations may routinely contain salts, buffering agents,  
25 preservatives, compatible carriers, and optionally other therapeutic agents. When used in medicine, the salts should be pharmaceutically acceptable, but non-pharmaceutically acceptable salts may conveniently be used to prepare pharmaceutically-acceptable salts thereof and are not excluded from the scope of the invention. Such pharmacologically and pharmaceutically-acceptable salts include,  
30 but are not limited to, those prepared from the following acids: hydrochloric, hydrobromic, sulfuric, nitric, phosphoric, maleic, acetic, salicylic, citric, formic,

malonic, succinic, and the like. Also, pharmaceutically-acceptable salts can be prepared as alkaline metal or alkaline earth salts, such as sodium, potassium or calcium salts.

5 Pharmaceutcial compositions may be combined, if desired, with a pharmaceutically-acceptable carrier. The term "pharmaceutically-acceptable carrier" as used herein means one or more compatible solid or liquid fillers, diluents or encapsulating substances which are suitable for administration into a human. The term "carrier"

10 ingredient is combined to facilitate the application. The components of the pharmaceutical compositions also are capable of being co-mingled with the molecules of the present invention, and with each other, in a manner such that there is no interaction which would substantially impair the desired pharmaceutical efficacy.

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The pharmaceutical compositions may contain suitable buffering agents, including: acetic acid in a salt; citric acid in a salt; boric acid in a salt; and phosphoric acid in a salt.

20 The pharmaceutical compositions also may contain, optionally, suitable preservatives, such as: benzalkonium chloride; chlorobutanol; parabens and thimerosal.

The pharmaceutical compositions may conveniently be presented in unit dosage form

25 and may be prepared by any of the methods well-known in the art of pharmacy. All methods include the step of bringing the active agent into association with a carrier which constitutes one or more accessory ingredients. In general, the compositions are prepared by uniformly and intimately bringing the active compound into association with a liquid carrier, a finely divided solid carrier, or both, and then, if

30 necessary, shaping the product.

Compositions suitable for oral administration may be presented as discrete units, such as capsules, tablets, lozenges, each containing a predetermined amount of the active compound. Other compositions include suspensions in aqueous liquids or non-aqueous liquids such as a syrup, elixir or an emulsion.

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Compositions suitable for parenteral administration conveniently comprise a sterile aqueous or non-aqueous preparation of pharmaceutical agents, which is preferably isotonic with the blood of the recipient. This preparation may be formulated according to known methods using suitable dispersing or wetting agents and suspending agents. The sterile injectable preparation also may be a sterile injectable solution or suspension in a non-toxic parenterally-acceptable diluent or solvent, for example, as a solution in 1,3-butane diol. Among the acceptable vehicles and solvents that may be employed are water, Ringer's solution, and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil may be employed including synthetic mono- or di-glycerides. In addition, fatty acids such as oleic acid may be used in the preparation of injectables. Carrier formulation suitable for oral, subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's Pharmaceutical Sciences, Mack Publishing Co., Easton, PA.

10  
15  
20

An embodiment of the invention will now be described by example only and with reference to the following Figures and Tables;

Figure 1 illustrates a concentration-response of cells growing in butyrate as sole carbon source. This is the summary of four independent repeat experiments. Legend shows butyrate concentrations in mM;

25

Figure 2 illustrates the purity and quality of RNA preparation. The 28S and 18S sample bands are tight and clearly resolved for RNA prepared from butyrate- and glucose-grown cells. Little or no DNA or salt contamination appears in the samples;

30



Table 1 illustrates nucleic acid sequences identified by the screening method according to the invention; and

- 5 Table 2 illustrates a summary of expression data of nucleic acid sequences identified in Table 1.

### **Materials and Methods**

- 10 We have compared the expression profiles of colon cells growing in either glucose or butyrate as a carbon source. HT 29 colon carcinoma cells were cultured in DMEM medium (Gibco) in the presence of 10% foetal calf serum, penicillin and streptomycin. Cells were either cultured in glucose alone as the sole carbon source, or in butyrate as the sole extraneous provided carbon source. Empirical analysis of
- 15 HT29 cells grown in multiple butyrate concentrations revealed that 2mM butyrate was optimal for cell culture in the absence of glucose. Cells were cultured in either medium for multiple passages (typically 4). RNA was extracted from cells grown in each condition and used to probe an Affymetrix human 12k array. The expression profile of cells cultured in each condition was compared and genes altered in
- 20 expression by more than 2 fold are listed in Table 2.

### **Materials used during this study**

<u>ITEM</u>	<u>ITEM - SPECIFICS</u>	<u>SUPPLIER</u>
Glucose medium (1)	Dulbecco's Modified Eagle Medium 25 mM HEPES 1 x 0.1 micron filtered with sodium pyruvate, with 1000	GIBCO

	mg/l glucose with pyridoxine + FCS + p/s (500 ml)	
Butyrate medium (2) 0.2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 110 µl + FCS + p/s (555.1 ml)	GIBCO
Butyrate medium (3) 2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 1100 µl + FCS + p/s (556.1 ml)	GIBCO
Medium without glucose and without butyrate (4)	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + FCS + p/s (550 ml)	GIBCO
NaB stock	Sodium Butyrate powder dissolved in sterile water 250 mg in 2.27 ml water	Sigma

	(1M) 0.2 µm filter sterilised	
Sterile syringes	5 ml	Becton Dickinson UK, Ltd
Sterilising filters	0.2 µm Acrodisc	Gelman Sciences, Ltd
<b><u>Item</u></b>	<b><u>Item specifics</u></b>	<b><u>Supplier</u></b>
FCS	Foetal Calf Serum 50 ml per 500 ml DMEM	Harlan Sera Lab
P/S	Penicillin – Streptomycin solution 100ml bottle (100 X) – 5 ml per 500 ml DMEM	Sigma
TE for splitting cells	Trypsin Enzyme – 100 ml bottle - 3 ml per T75 and 1 ml per 6 well plate well	Sigma
FCS tubes	50 ml Centrifuge tubes	Corning Inc
P/S + TE tubes	30 ml Universal containers	Bibby Sterilin Ltd
Tissue Culture Plates	6 well sterile with lid single packed	Greiner bio-one
Tissue Culture Flasks	T 75	Nunc
Stripette ® 5ml, 10ml,	Serological Pipette,	Corning Inc / Costar

25 ml	individually wrapped	
Pipette	Powerpette plus	Jencons
Cell Counting Slide	Haemocytometer, improved Neubauer	Neubauer
Ethanol for tissue culture	70 % EtOH	Sigma
Virkon for cell culture	1 % Virkon	Day Impex, Ltd
Microscope for cell work	Light 6 – 10X	CK Olympus, Tokyo
Paper towels	Blue	Jamont (UK), Ltd
Latex-free examination gloves	Large	Shermond Surgical Supply, Ltd
<b><u>Item</u></b>	<b><u>Item specifics</u></b>	<b><u>Supplier</u></b>
RNA extraction reagent	TRIzol ® Reagent	Invitrogen – Life technologies
RNA extraction reagent	Chloroform	Sigma
RNA extraction reagent	Isopropyl alcohol	Sigma

RNA extraction reagent	75% EtOH in DEPC-treated water	Sigma
RNA extraction reagent	Rnase-free water	Sigma
RNA clean up kit	Rneasy Midi Kit (10 RNeasy midi spin columns)	Qiagen
$\beta$ - Mercaptoethanol	14.3 M stock solution	Sigma
Ethanol for Qiagen	96-100% EtOH	Sigma
Agarose	1g in 100 ml TB-EDTA-Buffer	Helena Biosciences, UK
TB-EDTA- Buffer	Tris-Borate-EDTA buffer 100ml	Sigma
Eppendorf tubes	1.5 ml	Sarstedt Laboratory supplies, Ltd
Loading buffer	6 X	Promega

#### **The Human Colon Carcinoma Cell Line - HT29**

5 The HT29 cell line is established from a colon adenocarcinoma which was removed from a 44 year old Caucasian woman. The cell line is epithelial in origin and hypertriploid. It has been shown to be tumourigenic in nude mice and synthesizes Carcino embryonic antigen - CEA (Egan & Todd, 1972) and the Transforming

growth factors - TGF- $\alpha$  and TGF- $\beta$  (Anzano *et al.* 1989) when maintained *in vitro*. The HT29 cell line constitutively over-produces mutant p53 protein as a consequence of a point mutation at codon 273, resulting in an Arginine to Histidine amino acid substitution (Hsu *et al.* 1994).

5

### **The Culture of HT29 Colorectal adenocarcinoma cells**

Cells were cultured in T75 tissue culture flasks (Nunc) in 5% CO<sub>2</sub> at 37°C. Cells were passaged when confluent by washing twice in PBS and incubating in pre-warmed trypsin : EDTA (1:1) at 37°C until cells detached. The cells were then re-suspended in the appropriate growth medium, either glucose DMEM or butyrate DMEM before being seeded into new T75 tissue culture flasks or 6-well plates.

10

### **Optimisation of HT29 cell growth in butyrate as sole extraneous carbon source**

15

HT29 cells were seeded out into 19 wells (in 6 well plates) at a cell density of 0.5 x 10<sup>6</sup> cells per well (i.e. 500 000 cells per well) deduced with the aid of a Haemocytometer (Improved Neubauer). These cells were taken from T75 - 0.2 mM butyrate (NaB) DMEM flasks and allowed to adhere to the 6-well plates over 72 hrs also in 0.2 mM NaB DMEM with FCS and Penicillin / Streptomycin antibiotics. After the cells had adhered to the surface of the 6 well plates the 0.2 mM NaB DMEM was removed and each well was washed twice with PBS in order to remove all traces of the 0.2 mM DMEM, then different concentrations of NaB DMEM with FCS and with Penicillin / Streptomycin antibiotics were added to the appropriate wells in triplicate. Cell counts were taken at various time points. Specific media was changed daily in order to maintain the appropriate / desired NaB concentrations per well. All solutions / reagents used were pre-warmed in a water bath prior to use so as to avoid any cold shock to the cells.

20

25

30

### RNA extraction using TRIzol® Reagent

Total RNA was extracted from HT29 cells grown to confluence in T75 flasks using TRIzol Reagent as per manufacturer's recommendations. Cells were grown for  
5 several passages either in butyrate-containing medium, or in glucose-containing medium prior to extraction of RNA

Cells were homogenised using 1 ml TRIzol Reagent per 10 cm<sup>2</sup> area of culture surface. The homogenised samples were incubated for 5 minutes at ambient  
10 temperature to permit the complete dissociation of nucleoprotein complexes. 200µl of chloroform was added to each sample. Tubes were shaken vigorously by hand for 15 seconds and incubated at ambient temperature for 3 minutes. Samples were centrifuged at 12000g for 15 minutes at 4°C. RNA in the aqueous phase was separated and precipitated using isopropyl alcohol. RNA was rinsed, air dried and  
15 redissolved in RNase-free water.

RNA was further purified using Qiagen RNeasy columns. The columns were used exactly as per manufacturer's recommendations. RNA was eluted into RNase-free  
20 water.

RNA purified in this way was analysed by agarose gel to establish purity and quality. The gel is shown in figure 2.

### Microarray analysis

25 Microarray analysis was undertaken as a commercial service by the University of Newcastle-upon-Tyne. In this study, the 2 RNA samples (1x butyrate + 1x glucose) from the 2 experimental conditions (butyrate + glucose) were sent to the Institute for Human Genetics at the University of Newcastle-upon-Tyne for microarray analysis.  
30 This was performed on a 12 k Affymetrix *Homo sapiens* gene chip. Genes altered in expression by more than 2 fold on the microarray are listed in table 1.

Table 1

Human mitochondrial ADP/ADT translocator mRNA, complete cds.

ccccctagcg	tcgcgcaggg	tcggggactg	cgcgcggtgc	caggccgggc	gtgggcgaga	60
gcacgaacgg	gctgctgcgg	gctgagagcg	tcgagctgtc	accatgggtg	atcacgcttg	120
gagcttccta	aaggacttcc	tggccggggc	ggtcgccgct	gccgtctcca	agaccgcggt	180
cgccccatc	gagagggtca	aactgctgct	gcagggtccag	catgccagca	aacagatcag	240
tgctgagaag	cagtacaaag	ggatcattga	ttgtgtggtg	agaatcccta	aggagcaggg	300
cttcctctcc	ttctggaggg	gtaacctggc	caacgtgatc	cgttacttcc	ccaccaagc	360
tctcaacttc	gccttcaagg	acaagtacaa	gcagctcttc	ttaggggggtg	tggatcggca	420
taagcagttc	tggcgctact	ttgctggtaa	cctggcgctc	ggtggggccg	ctggggccac	480
ctccctttgc	tttgtctacc	cgtgggactt	tgctaggacc	aggttggtg	ctgatgtggg	540
caggcgcgcc	cagcgtgagt	tccatggtct	gggcgactgt	atcatcaaga	tcttcaagtc	600
tgatggcctg	agggggctct	accagggttt	caacgtctct	gtccaaggca	tcattatcta	660
tagagctgcc	tacttcggag	tctatgatac	tgccaagggg	atgctgcctg	acccaagaa	720
cgtgcacatt	tttgtgagct	ggatgattgc	ccagagtgtg	acggcagtcg	cagggctgct	780
gtcctacccc	tttgacactg	ttcgtcgtag	aatgatgatg	cagtccggcc	ggaaaggggc	840
cgatattatg	tacacgggga	cagttgactg	ctggaggaag	attgcaaaag	acgaaggagc	900
caaggccttc	ttcaaagggtg	cctgggtccaa	tgtgctgaga	ggcatgggcg	gtgcttttgt	960
attggtgttg	tatgatgaga	tcaaaaaata	tgtctaattg	aattaaaaca	caagttcaca	1020
gatttacatg	aacttgatct	acaagttcac	agatccattg	tgtggtttta	tagactattc	1080
ctaggggaag	taaaaagatc	tgggataaaa	ccagactgaa	aggaatacct	cagaagagat	1140
gcttcattga	gtgttcatta	aaccacacat	gtattttgtg	tttattttac	atttaaattc	1200
ccacagcaaa	tagaaataat	ttatcatact	tgtacaatta	actgaagaat	tgataataac	1260
tgaatgtgaa	acatcaataa	agaccactta	atgcacaaaa	aaaaaaaaaa	aaaaaaaaaa	1320



## Homo sapiens mRNA for VNN1 protein

cattggactt	cagcatgact	actcagttgc	cagcttacgt	ggcaattttg	cttttctatg	60
tctcaagagc	cagctgccag	gacactttca	ttgcagctgt	ttatgagcat	gcagcgatat	120
tgcccaatgc	caccctaaca	ccagtgctct	gtgaggaggc	tttggcatta	atgaatcgga	180
atctggacat	tttggaaagga	gcgatcacat	cagcagcaga	tcagggtgcg	catattattg	240
tgactccaga	agatgcttatt	tatggctgga	acttcaacag	ggactctctc	tacccatatt	300
tgagggacat	cccagaccct	gaagtaaact	ggatcccctg	taataatcgt	aacagatttg	360
gccagacccc	agtacaagaa	agactcagct	gcctggccaa	gaacaactct	atctatgttg	420
tggcaaatat	tggggacaag	aagccatgcg	ataccagtga	tcctcagtgt	ccccctgatg	480
gccgttacca	atacaaoact	gatgtggtat	ttgattctca	aggaaaactg	gtggcacgct	540
accataagca	aaaccttttc	atgggtgaaa	atcaattcaa	tgtacccaag	gagcctgaga	600
ttgtgacttt	caataccacc	tttggaaagt	ttggcatttt	cacatgcttt	gatatactct	660
tccatgatcc	tgctgttacc	ttgggtgaaag	atttccacgt	ggacaccata	gtattcccaa	720
cagcttggat	cccagctttg	ccacatttgt	cagctgttga	attccactca	gcttgggcta	780
tgggcatgag	gggtcaatttc	cttgcattca	acatacatta	cccctcaaag	aaaatgacag	840
gaagtggcat	ctatgcaccc	aattcttcaa	gagcatttca	ttatgatatg	atagacagaag	900
agggaaaact	cctcctctcg	caactggatt	cccacccatc	ccattctgca	gtgggtgaact	960
ggacttccta	tgccagcagt	atagaagcgc	tctcatcagg	aaacaaggaa	tttaaaggca	1020
ctgtcttttt	cgatgaattc	acttttgtga	agctcacagg	agttgcagga	aattatacag	1080
tttgtcagaa	agatctctgc	tgtcatttaa	gctacaaaat	gtctgagaac	ataccaaatg	1140
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agatttgtac	cctgttgaaa	tgtaaaacga	ctaattttaa	cacttgcggg	gactcagctg	1260
aaacagcttc	taccagggtt	gaaatgttct	ccctcagtgg	cactttcgga	accagtatg	1320
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ctgacggaag	cttgttttagt	ctgaagccaa	catccggacc	tgtcttaaca	gtaactctgt	1440
ttgggagggt	gtatgagaag	gactgggcac	caaagtcttc	atcaggcctc	acagcacaag	1500
caagaataat	aatgctaata	gttatagcac	ctattgtatg	ctcattaagt	tggtagaata	1560
ttgacttttt	ctctttttta	tttgggataa	tttaaaaaat	gatggatgag	aaaagaaaga	1620
ttgggtccggg	ttaatatatt	cctctagtat	aagtgaatta	ctagtttctc	tttatttaga	1680
caaacacaca	cacaccagat	aatataaact	taataaatta	tctgttaatg	tagattttat	1740
ttaaaaaact	atatttgaac	attggctctt	cttggacgtg	agctaattat	atcaaataag	1800
tatcacaaat	ctttttacgca	gaagaaataa	aaactacggg	tagaaaacat	aagaactatc	1860
ataaaaattta	cttacaagga	ggctgctctt	gttaccactt	ttattatatt	acgtatcact	1920
tattcagctc	tgttgaaaat	ttccaatgac	tttgtttgtt	tgtcttttta	gttttttacc	1980
taaacaaatc	atttttgattc	tcttgtgggt	tgataatgtc	tccccaaaat	ttacatgttg	2040
aagcacctca	gaatgtgact	gtatttggag	acagggtctt	taaagaggta	aaataagggtc	2100
attaggatag	accctaattc	aatatgactg	atgatcataa	aagaagaggc	gagtaggggca	2160
caacaggcac	aaagggagac	cataaggaga	cacagaggaa	ggacaactct	ttacaagcta	2220
agaagagagg	gcctcagaag	aaaccaaccc	tgccaacacc	ttgatcttgg	acttccagcc	2280
tccaaaacta	tgagaaataa	atttctattg	tttaagtcat	ccagtccatg	gtactttggt	2340
aggcagccct	ggcaaatgaa	tcaaagaccc	attcctgttc	ctctccccac	cactactgtt	2400
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gggtcctcaa	gactccaata	gacactctta	aagaaggatt	gctgatggat	tgatagtga	2520
accattagat	cattgaattc	ctctggaatt	agaaaaccag	agagtcccat	tttaagaaat	2580
tagatattta	atatagcatt	gtgtgttcta	tttttagtaac	agcagaatct	cttgacatta	2640
cacaactcag	tgaacaacaa	tcattttaagc	caaaatatct	cccaactgac	tgatagactc	2700
tgagcactaa	tatcatagtg	ctgtgatgat	ggacaattac	atagtaccga	taacagccat	2760
gcactgtgca	aagcatgccc	ttctgcacag	gagagcaagg	cacttgcagt	agtgatctat	2820
gccagcaaaa	catcattttg	agacaaacat	ttttgtggca	gatgtttttc	ctaaaaagta	2880
ctatatcatc	caagaaatat	ttgagtaaaa	tcccttggtc	ttttgggtga	catttaactga	2940
catttgcctt	ttttcaagac	ctaatagaaa	ataagaaagc	ccataatgta	tttagaaaca	3000
ggaatcctca	gagcaattct	ctgtattctc	atataatttc	aatgtaaaac	agaaaacata	3060
ttgatgtgtt	gggtgataggc	ttgaattatt	aaaaacttca	aaaacaaaa		3109

## Homo sapiens transmembrane protein 5, mRNA

ggctgggcct	gcctcggacg	cgcgcgggtgt	cgcggattct	ctttccgccc	gctccatggc	60
ggtggatgcc	tgactggaag	cccagatggg	atgcggctga	cgcggaagcg	gctctgctcg	120
tttcttatcg	ccctgtactg	cctattctcc	ctctacgctg	cctaccacgt	cttcttcggg	180
cgccgcgcgc	agggcgccggc	cgggtccccg	cggggcctca	ggaagggggc	ggcccccgcg	240
cgggagagac	gcggccgaga	acagtccact	ttggaaaagt	aagaatggaa	tccttgggaa	300
ggagatgaaa	aaaatgagca	acaacacaga	tttaaaacta	gccttcaa	attagataaa	360
tccacgaaag	gaaaaacaga	tctcagtgtg	caaactctggg	gcaaagctgc	cattggccttg	420
tatctctggg	agcatatttt	tgaaggctta	cttgatccca	gcgatgtgac	tgctcaatgg	480
agagaaggaa	agtcaatcgt	aggaagaaca	cagtacagct	tcatcactgg	tccagctgta	540
ataccaggg	acttctccgt	tgatgtgaat	aatgtggtac	tcatttttaa	tggagagaaa	600
aaagcaaaga	tcttttatgc	caccagtg	ttactttatg	cacaaaattt	agtgcaaatt	660
caaaaactcc	agcatcttgc	tgttgttttg	ctcgaaaatg	aacattgtga	taatgagtgg	720
ataaacccat	tcctcaaaag	aaatggaggc	ttcgtggagc	tgcttttcat	aatatatgac	780
agcccctgga	ttaatgacgt	ggatgttttt	cagtggcctt	taggagtagc	aacatacagg	840
aattttcctg	tgggtggaggc	aagtgtgtca	atgctgcatg	atgagaggcc	atatttatgt	900
aattttcttag	gaacgattta	tgaaaattca	tccagacagg	cactaatgaa	cattttgaaa	960
aaagatggga	acgataagct	ttgttgggtt	tcagcaagag	aacactggca	gcctcaggaa	1020
acaaatgaaa	gtcttaagaa	ttaccaagat	gccttgcttc	agagtgatct	cacattgtgc	1080
cgggtcggag	taaacacaga	atgctatcga	atctatgagg	cttgctccta	tggctccatt	1140
cctgtggtgg	aagacgtgat	gacagctggc	aactgtggga	atacatctgt	gcaccacggt	1200
gctcctctgc	agttactcaa	gtccatgggt	gctcccttta	tctttatcaa	gaactggaag	1260
gaactccctg	ctgttttaga	aaaagagaaa	actataattt	tacaagaaaa	aattgaaaga	1320
agaaaaatgt	tacttcagt	gtatcagcac	ttcaagacag	agcttaaaat	gaaatttact	1380
aatatttttag	aaagctcatt	tttaatgaat	aataaaagtt	aattatcttt	ttgagctaaa	1440
aaaaaaaa	aaaaaaaa	aaaaaaaa				

## Homo sapiens CD3e-associated protein (CAST) mRNA, complete cds.

```

cccaggatgg aggagcccca ggccggcgggt gaggatgctg ctcggtttctc ttgtccccc 60
aactttaccg cgaagccccc agcctcagag tccctcgtt tctccttgga ggcgctgacg 120
ggtccagata cggagctgtg gcttattcag gcccctgcag actttgccc agaatgcttc 180
aatgggcggc atgtgcctct ctctggctcc cagatcgtca agggcaaatt ggcaggcaag 240
cggcaccgct atcgagtcct cagcagctgt cccaagctg gagaagcgac cctgctggcc 300
ccctcaacgg aggcaggagg tggactcacc tgtgcctcag cccccaggg caccctaagg 360
atccttgagg gtccccagca atcctgtca gggagccctc tgcagcccat ccagcaagt 420
ccccaccac agatccctcc tggcctgagg cctcggttct gtgcctttgg gggcaacca 480
ccagtacag ggctagggtc agccttggcc cccaacctgc tcacctcagg gaagaagaaa 540
aaggagatgc aggtgacaga ggccccagtc actcaggagg cagtgaatgg gcacggggcc 600
ctggagggtg acatggcttt ggggtcgcca gaaatggatg tgcggaagaa gaagaagaaa 660
aaaaatcagc agctgaaaga accagaggca gcagggcctg tggggacaga gccacagtg 720
gagacactgg agcctctggg agtgcctgtc ccgtccacca ccaagaagag gaagaagccc 780
aaagggaaaag aaaccttcga gccagaagac aagacagtga agcaggaaca gattaacact 840
gagcctctag aagacacagt cctgtccccg accaaaaaga gaaagaggca aaaggggacg 900
gaagggatgg agccagagga gggggtgaca gttgagtctc agccacaggt gaagggtggag 960
ccactggagg aagccatccc tctgccccct acgaagaaga ggaaaaaaga aaagggacag 1020
atggcaatga tggagccagg gðgggaggcg atggagccag tggagccgga gatgaagcct 1080
ctggagtccc cagggggggac catggcgctt caacagccag aaggagcgaa gcctcaggcc 1140
caggcagctc tggcagctcc caaaaagaag acgaagaaag aaaaacagca agatgccaca 1200
gtggagccag agacagaggt ggtggggcct gagctgcagg atgacctga gcctcaggca 1260
gctccacat ccaccaagaa gaagaagaag aagaaagaga gaggtcacac agtgactgag 1320
ccaattcagc cactagagcc tgaactgcc ggggagggac agcctgaagc cagggcaact 1380
ccgggatcca ccaagaagag gaagaagcag agtcaggaaa gccggatgcc agagacagtg 1440
cccaagagg agatgccagg gccgccactg aattcagagt ctggggagga ggctcccaca 1500
ggccgggaca agaagcggaa gcagcagcag cagcagcctg tgtagtctgc ccccgggaaa 1560
ctgaggaact aaagaâagct gaaggtgcc acctgggcca ccagaagggtg acacccccag 1620
aatccctccc cagagactgc accagcgag ccagcaggag cctggcctgg gaggacgatt 1680
tattattaca ctgggggttt ccttggcagc tggggtcatc agggtaacttt caagaagggc 1740
tcgtgcagga catcaaacag cctccgggcc tggatgggag ggagaaaaaa atgaggaacc 1800
gtcattaaa ggagctgttt cctgggtaaa aaaaaaaaaa a

```

Homo sapiens Apo-2 ligand mRNA, complete cds.

```

tttcctcact gactataaaa gaatagagaa ggaagggcct cagtgaccgg ctgcctggct      60
gacttacagc agtcagactc tgacaggatc atggctatga tggagggtcca gggggggaccc      120
agcctgggac agacctgcgt gctgatcgtg atcttcacag tgctcctgca gtctctctgt      180
gtggctgtaa cttacgtgta ctttaccac gagctgaagc agatgcagga caagtactcc      240
aaaagtggca ttgcttggtt cttaaaagaa gatgacagtt attgggaccc caatgacgaa      300
gagagtatga acagcccctg ctggcaagtc aagtggcaac tccgtcagct cgttagaaag      360
atgattttga gaacctctga ggaaaccatt tctacagttc aagaaaagca acaaaatatt      420
tctcccctag tgagagaaaag aggtcctcag agagtagcag ctcacataac tgggaccaga      480
ggaagaagca acacattgtc ttctccaaac tccaagaatg aaaaggctct gggccgcaaa      540
ataaactcct gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg      600
aatggtgaac tggatcatcca tgaaaaaggg ttttactaca tctattccca aacatacttt      660
cgatttcagg aggaaataaa agaaaacaca aagaacgaca aacaaatggg ccaatatatt      720
tacaatatca caagttatcc tgaccctata ttgttgatga aaagtgctag aaatagttgt      780
tggctctaaag atgcagaata tggactctat tccatctatc aagggggaat atttgagctt      840
aaggaaaatg acagaatttt tgtttctgta acaaatgagc acttgataga catggaccat      900
gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga aaaagcaata      960
acctcaaagt gactattcag ttttcaggat gatacactat gaagatgttt caaaaaatct     1020
gaccaaaca aacaaacaga aa

```

## Homo sapiens mRNA for annexin A13 (ANXA13 gene), isoform b

gtaaactttg	cctgtaggag	gactgatctc	ttaatgaaat	acagaaaaac	catctcagaa	60
aaaggaaaat	gggcaatcgt	catagccagt	cgtacaccct	ctcagaaggc	agtcaacagt	120
tgcctaaagg	ggactcccaa	ccctcgacag	tcgtgcagcc	tctcagccac	ccatcacgga	180
atggagagcc	agaggcccca	cagcctgcta	aagcgagcag	tcctcagggg	tttgatgtgg	240
atcgagatgc	caaaaagctg	aacaaagcct	gcaaaggaat	ggggaccaat	gaagcagcca	300
tcattgaaat	cttatcgggc	aggacatcag	atgagaggca	acaaatcaag	caaaagtaca	360
aggcaacgta	cggcaaggag	ctggaggaag	tactcaagag	tgagctgagt	ggaaacttcg	420
agaagacagc	gttggccctt	ctggaccgtc	ccagcgagta	cgccgcccgg	cagctgcaga	480
aggctatgaa	gggtctgggc	acagatgagt	cogtcctcat	tgaggtcctg	tgacagagga	540
ccaataagga	aatcatcgcc	attaaagagg	cctaccaaag	gctatttgat	aggagcctcg	600
aatcagatgt	caaaggtgat	acaagtggaa	acctaataaa	aatcctgggtg	tctctgctgc	660
aggctaattc	caatgaagga	gatgacgtgg	acaaagatct	agctggtcag	gatgccaaag	720
atctgtatga	tgcaggggaa	ggccgctggg	gcactgatga	gcttgcgttc	aatgaagtcc	780
tgGCCaagag	gagctacaag	cagttacgag	ccacctttca	agcctatcaa	attctcattg	840
gcaaagacat	agaagaagcc	attgaagaag	aaacatcagg	cgacttgtag	aaggcctatt	900
taactctcgt	gagatgtgcc	caggattgtg	aggactatct	tgctgaacgt	ctgtacaagt	960
cgatgaaggg	tgccggggacc	gatgaggaga	cgttgattcg	catagtcgtg	accagggccg	1020
aggtggacct	tcaggggatc	aaagcaaagt	tccaagagaa	gtatcagaag	tctctctctg	1080
acatggttcg	ctcagatacc	tccggggact	tccggaaact	gctagtagcc	ctcttgact	1140
gagccaagcc	agggcaatag	gaacacaggg	tggaaacacc	tttgtcaaga	gcacattcca	1200
aatcaaaact	gcaaattgaga	ctcccgcacg	aaaaccctta	agagtcccgg	attactttct	1260
tgGcagctta	agtggcgtag	ccaggccaag	ctgtgtaagt	taagggcagt	aacgttaaga	1320
tgcgtgggca	gggcaccttg	aactctggct	tagcaagcat	ctaggctgcc	tcttcacttt	1380
cttttagcat	ggtaactgga	tgttttctaa	acactaatga	aatcagcagt	tgatgaaaaa	1440
actatgcatt	tgtaattggca	catttagaag	gatatgcatt	acacaagtaa	ggtacaggaa	1500
agacaaaatt	aaacaattta	ttaattttcc	ttctgtgtgt	tcaatttgaa	agcctcattg	1560
ttaattaaag ttgtggatta tgcctcta						

Homo sapiens serine protease inhibitor, Kazal type 1, mRNA (cDNA clone

cgcagaactt	cagccatgaa	ggtaacaggc	atctttcttc	tcagtgcctt	ggccctgttg	60
agtctatctg	gtaacactgg	agctgactcc	ctgggaagag	aggccaaatg	ttacaatgaa	120
cttaatggat	gcaccaagat	atatgaccct	gtctgtggga	ctgatggaaa	tacttatccc	180
aatgaatgcg	tgttatgttt	tgaaaatcgg	aaacgccaga	cttctatcct	cattcaaaaa	240
tctgggcctt	gctgagaacc	aaggttttga	aatcccatca	ggtcaccgcg	aggcctgact	300
ggccttattg	ttgaataaat	gtatctgaat	atcaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	360
aa						

## Homo sapiens B cell linker protein BLNK mRNA, alternatively spliced

ccttcgtggc	cgcagcctgc	actctcagaa	atcagacttg	agtggccgga	acccttgaga	60
ccagaggctt	accatgctgc	tccctaggag	ggccaggaac	tgctgacgtg	accactggac	120
agttattcgt	gtctcttaca	attaccaaac	agaatggaca	agcttaataa	aataaccgtc	180
cccgccagtc	agaagttgag	gcagcttcaa	aagatggtcc	atgatattaa	aaacaatgaa	240
ggtggaataa	tgaataaaat	caaaaagcta	aaagtcaaag	cacctccaag	tgttcctcga	300
agggactacg	cttcagagag	ccccgctgac	gaagaggagc	agtgggtccga	tgactttgac	360
agcgactatg	aaaatccaga	tgagcactcg	gactcagaga	tgtacgtgat	gcccgccgag	420
gagaacgctg	atgacagcta	cgagccgcct	ccagtagagc	aggaaaccag	gccggttcac	480
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ccacccttca	gcaagacact	tcccagtaag	cccagctggc	cttcagagaa	agcaaggctc	600
acctccaccc	tgccggccct	gactgctttg	cagaaacctc	aagtcccacc	caaaccctaaa	660
ggcctccttg	aggatgaggc	tgattatgtg	gtccccgtgg	aagataatga	tgaaaactat	720
attcatccca	cagaaagcag	ttcacctcca	cctgaaaaag	ctcccatggg	gaatagatca	780
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aaaaaaccaa	cgacaccact	gaagacaact	ccagttgcct	ctcaacagaa	tgcttcaagt	960
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ggttgagtta	tcatgctact	aatattttcc	aaataaatat	ttttattttt	aaaaaaaaaa	1800
aaaaaa						

Homo sapiens cDNA FLJ12768 fis, clone NT2RP2001576, weakly similar to  
HYPOTHETICAL 62.2 KD PROTEIN C4G8.12C IN CHROMOSOME I

agtctccg	ctgctgag	gcgcccgg	gctcccaagg	cctccccctc	gccctgcggt	60
ccgcgcgc	ccggggcctc	ctggggaccct	ggccctcgcc	gggcaggacg	ccgccagcgc	120
tgaaggcgca	gcccggaggg	cgcgcggatg	cagatctgtg	gatccagcgt	agcatctgta	180
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atggcagtca	gggtgctttg	gggtgggtctc	agcctgctcc	gagtgtgtgt	gtgtctcctt	300
ccgcagacgg	gctatgtgca	cccagatgag	ttcttccagt	ccccgaggt	gatggcagag	360
gacatcctgg	gggttcaggc	cgcgcgggcc	tgggagtttt	acccagcag	ctcctgccgc	420
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gcattggaagt	gggagttgtg	ttgtacttca	tggcactctg	atgcctgtctg	tctcagtggt	2640
tggttattat	gcaaacaagt	aatgtttgaa	atatataata	gcactgg		



Homo sapiens glycine amidinotransferase (L-arginine:glycine  
amidinotransferase), mRNA (cDNA clone MGC:1744 IMAGE:3010128), complete

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cggggaaggct tggaccgacg cggcccagag gccaggaaca ttccgcgcgt ggaccagccg      60
ggccagggcg atgctgcggg tgcgggtgtct gcgcggcggg agccgcggcg ccgaggcggt      120
gcactacatc ggatctcggc ttggacgaac cttgacagga tgggtgcagc gaactttcca      180
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aa

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Homo sapiens cDNA FLJ10143 fis, clone HEMBA1003281, weakly similar to  
POLIOVIRUS RECEPTOR PRECURSOR.

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acaacaacca	agccagttaa	atggtaggaa	tttgtatattt	ttgcctttgt	tcagaataca	1680
tgacattggt	aaat					

Homo sapiens leucine aminopeptidase 3, mRNA (cDNA clone IMAGE:2821948), partial cds

gtctggccgt	gagacgtttc	gggagccgga	gtctctccac	cgcagacatg	acgaagggcc	60
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acaaactctt	cgaggccagc	attgaaacag	gggaccgtgt	ctggaggatg	cctctcttcg	1260
aacattatac	aagacagggt	gtagattgcc	agcttgctga	tgtaacaac	attggaaaat	1320
acagatctgc	aggagcatgt	acagctgcag	cattcctgaa	agaattcgta	actcatccta	1380
agtgggcaca	tttagacata	gcaggcgtga	tgaccaacaa	agatgaagtt	ccctatctac	1440
ggaaaggcat	gactgggagg	cccacaagga	ctctcattga	gttcttactt	cgtttcagtc	1500
aagacaatgc	ttagttcaga	tactcaaaaa	tgtcttcact	ctgtcttaaa	ttggacagtt	1560
gaacttaaaa	ggtttttgaa	taaatggatg	aaaatctttt	aacggagaca	aaggatggta	1620
tttaaaaatg	tagaacacaa	tgaattttgt	atgccttgat	ttttttttca	tttcacacaa	1680
agatttataa	aggtaaagtt	aatatcttac	ttgataagga	tttttaagat	actctataaa	1740
tgattaaaaa	ttttagaact	tcctaatac	ttttcagagt	atatgttttt	cattgagaag	1800
caaaattgta	actcagattt	gtgatgctag	gaacatgagc	aaactgaaaa	ttactatgca	1860
cttgtcagaa	acaataaatg	caacttggtg	tgctcaaaaa	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa					

## Homo sapiens mRNA for protein phosphatase 4 regulatory subunit 2 (PPP4R2 gene)

actgtacaaa	tgctttat	ctattcaata	tttagaagac	agttataaac	aagatgcatt	60
caatagcatg	gtggcagatg	aacatcagga	aggaacatcc	atgagcttcc	atccacggaa	120
cctcaccatg	gatacgcttg	tgatcaaggg	cctgggtctcc	cctcaagaca	cggtcacaga	180
tcagaggcca	caccatccta	gcagtggagc	agtaccagct	gggacagggt	ccttctgtga	240
cacctgctgc	atcaccaggc	tgggtgaacg	gacacaattg	ccagaactca	cagaatagaa	300
gtatcagcac	cgaaacctca	caggaaaaat	ggtaagttct	aagtttctcc	attaatagta	360
actctcagat	taatctctgt	catccatcgc	ttctccaaga	aatgactttt	taggggtgatg	420
tgccaggcgc	catgttggag	ggctgggtgg	agcggcttgg	ggaggtgctc	actctgtcgg	480
tcttgctctc	tgcacgcctt	cccccggtc	ccttcgtttc	ccccccccgg	tcgcctgcgt	540
gccggagtg	gtgcgaggg	gggggagggc	gtcggggggg	tggggggagg	cgttccggtc	600
cccaaaagac	ccgcggaggg	agggcgaggc	tgtgagggac	tccgggaagc	catggacgtc	660
gagaggctcc	aggaggcgct	gaaagatttt	gagaagaggg	ggaaaaagga	agtttgtcct	720
gtcctggatc	agtttctttg	tcattgtagcc	aagactggag	aaacaatgat	tcagtgggtcc	780
caattttaaag	gctatttttat	tttcaaaactg	gagaaagtga	tggatgattt	cagaacttca	840
gctcctgagc	caagaggtcc	tcccaaccct	aatgtcgaat	atattccctt	tgatgaaatg	900
aaggaaagaa	tactgaaaat	tgtcactgga	tttaattggt	tccctttttac	tatttcagcga	960
ctatgtgaat	tgtaacaga	tccaaggaga	aactatacag	gaacagacaa	atttctcaga	1020
ggagtagaaa	agaacgtgat	ggttggttagc	tgtgtttatc	cttcttcaga	gagaaacaat	1080
tccaatagtt	taaatcgaat	gaatgggtgtg	atgtttcctg	gaaatgcacc	aagctatact	1140
gagaggtcta	atataaatgg	gcctggggaca	cccaggccac	gtaatcgacc	aaagggttct	1200
ctgtcagccc	ccatgacaac	aaatgggtgg	cctgagagca	cagacagcaa	agaggcaa	1260
ttgcagcaaa	atgaggagaa	aactcacagt	gactcttcga	catctgaatc	agaagtttcc	1320
tcagtgaagc	ccttgagaaa	taaacatcca	gatgaagatg	ctgtggaagc	tgaggggcat	1380
gaggtaaaaa	gactcaggtt	tgacaaagaa	ggtgaagtca	gagaaacagc	cagtcaaacg	1440
acttccagcg	aaatttcttc	agttatggta	ggagaaacag	aagcatcatc	ttcatctcag	1500
gataaagaca	aagatagccg	ttgtaccggg	cagcactgta	cagaagagga	tgaagaagag	1560
gatgaagagg	aagaagaaga	gtcttttatg	acatcaagag	aaatgatccc	agaaagaaaa	1620
aatcaagaaa	aagaatctga	tgatgcctta	actgtgaatg	aagagacttc	tgaagaaaat	1680
aatcaaattg	aggaatctga	tgtgtctcaa	gctgagaaag	atgtgtctaca	ttctgaagggt	1740
agtgaaaacg	aaggccctga	aagtaagtgg	ttcttctgac	tgccgtgaaa	cagaaaaatt	1800
agtaggaacc	aattcccagt	aaaactggaa	agaatctttc	cagaatcatc	ccatggataa	1860
tgatgacgaa	gccacagaag	tcaccgatga	accactggaa	caagactatt	tagaaacatt	1920
tacatgcagt	attttacaca	cagttctggg	tttaacactg	tataaaactt	ttatgtaaaa	1980
aagtgcacct	ttagttttac	aagtaaagca	ggttgtaaaa	taaagtactt	tatggataat	2040
tcctgaaag						

## Human mRNA for (2'-5') oligo A synthetase E (1,6 kb RNA)

gaggcagttc	tgttgccact	ctctctcctg	tcaatgatgg	atctcagaaa	taccccagcc	60
aaatctctgg	acaagttcat	tgaagactat	ctcttgccag	acacgtgttt	ccgcatgcaa	120
atcgaccatg	ccattgacat	catctgtggg	ttcctgaagg	aaaggtgctt	ccgaggtagc	180
tcctaccctg	tgtgtgtgtc	caaggtggta	aaggggtggc	cctcaggcaa	gggcaccacc	240
ctcagaggcc	gatctgacgc	tgacctgggt	gtcttcctca	gtcctctcac	cacttttcag	300
gatcagttaa	atcgccgggg	agagttcatc	caggaaatta	ggagacagct	ggaagcctgt	360
caaagagaga	gagcactttc	cgtgaagttt	gaggtccagg	ctccacgctg	gggcaacccc	420
cgtgcgctca	gcttcgtact	gagttcgctc	cagctcgggg	aggggggtgga	gttcgatgtg	480
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tatgtcaagc	tcatcgagga	gtgcaccgac	ctgcagaaag	agggcgagtt	ctccacctgc	600
ttcacagaac	tacagagaga	cttcctgaag	cagcgcccca	ccaagctcaa	gagcctcatc	660
cgccatgtca	agcactggta	ccaaaattgt	aagaagaagc	ttgggaagct	gccacctcag	720
tatgccctgg	agctcccgac	ggctctatgt	tgggagcgag	ggagcatgaa	aacacatttc	780
aacacagccc	aaggatttcg	gacggctctg	gaattagtca	taaactacca	gcaactctgc	840
atctactgga	caaagtatta	tgactttaaa	aaccccatca	ttgaaaagta	cctgagaagg	900
cagctcacga	aacccaggcc	tgtgatcctg	gacccggcgg	accctacagg	aaacttgggt	960
gggtggagacc	caaagggttg	gaggcagctg	gcacaagagg	ctgaggcctg	gctgaattac	1020
ccatgcttta	agaattggga	tgggtcccca	gtgagctcct	ggattctgct	gggtgagacct	1080
cctgcttcct	ccctgccatt	catccctgcc	cctctccatg	aagcttgaga	catatagctg	1140
gagaccattc	tttccaaaga	acttacctct	tgccaaaggc	catttatatt	catatagtga	1200
caggctgtgc	tccatatttt	acagtcattt	tggtcacaat	cgagggtttc	tgggaatttc	1260
acatcccttg	tccagaattc	attccctcaa	gagtaataat	aaataatctc	taacacccaa	1320

aa

Homo sapiens A-kinase anchoring protein 18 beta mRNA, complete cds.

```
gctcgcagac tgtgctataa actgcaattt ctatttgggg tcctcacgga gaagaacacc      60
aggaaagaca gacaggacca gtgccatggg ccagctttgc tgctttcctt tctcaagaga      120
tgaaggaaaa atcagtgagt tggaaagctc gtctcttgca gtcctacaaa gatacagcaa      180
ggatataccc agttgggtcaa gtggtgaaaa gaacggaggg gagcccgatg acgctgaact      240
agtaaggctc agtaagaggc tgggtggagaa cgcggtgctc aaggctgtcc agcagtatct      300
ggaggaaaca cagaataaaa acaagccggg ggagggggagc tctgtgaaaa ccgaagcagc      360
tgatcagaat ggcaatgaca atgagaacaa caggaaatga gcccggaacg caggcccca      420
tgtctctgtg caaagcctcc ctgcttccct ctgctgagtc tag
```

Homo sapiens peptidyl prolyl isomerase H (cyclophilin H), mRNA (cDNA clone

cttctgcttc	cgggtcggag	ccatggcggt	ggcaaattca	agtcctgtta	accccggtgt	60
gttctttgat	gtcagtattg	gcggtcagga	agttggccgc	atgaagatcg	agctctttgc	120
agacgtttgtg	cctaagacgg	ccgagaactt	taggcagttc	tgccaccggag	aattcaggaa	180
agatgggggtt	ccaataggat	acaaaggaag	caccttccac	agggtcataa	aggatttcat	240
gattcaggggt	ggagattttg	ttaatggaga	tggtactgga	gtcgccagta	tttaccgggg	300
gccatttgca	gatgaaaatt	ttaaacttag	acactcagct	ccaggcctgc	tttccatggc	360
gaacagtgggt	ccaagtacaa	atggctgtca	gttctttatc	acctgctcta	agtgcgattg	420
gctggatggg	aagcatgtgg	tgtttgga	aatcatcgat	ggacttctag	tgatgagaaa	480
gattgagaat	gttcccacag	gccccacaa	taagccaag	ctacctgtgg	tgatctcgca	540
gtgtgggggag	atgtagtcca	gacaaagact	gaatcaggcc	ttcccttctt	cttgggtgggtg	600
ttcttgagta	agataatctg	gactggcccc	cgtctttgct	tcctgcctg	ctgctgcccc	660
atttgatcaa	gagaccatgg	aagtgtcaga	gattcagaat	ccaagattgt	ctttaagttt	720
tcaactgtaa	ataaagtttt	tttgtatgog	taaaaaaaaa	aaaaa		

Homo sapiens mRNA; cDNA DKFZp564C0362 (from clone DKFZp564C0362); complete cds

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gggggaggct gtgatggggtt gacagggtgcg tgacagtggg agctgctctc ggcacaagca      60
tgtacggcaa aggcaagagt aacagcagcg ccgtcccgtc cgacagccag gcccgggaga      120
agtttagcact ctacgtatat gaatatctgc tccatgtagg agctcagaaa tcagctcaaa      180
cattttttatc agagataaga tgggaaaaaa acatcacatt gggggaacca ccaggattct      240
tacattcttg gtggtgtgta ttttgggata tctactgtgc agctccagag agacgtgaaa      300
catgtgaaca ctcaagtga gcaaaaagcct tccatgatta cagtgtctgca gcagctccca      360
gtccagtgtc aggaaacatt cccccaggag atggcatgcc agtaggtcct gtaccaccag      420
ggttctttca gccttttatg tcacctcggt accctggagg tccaaggccc ccattgagga      480
tacctaatac ggcaatttga ggtgtcccag gaagtcagcc attactcccc agaggaatgg      540
atccaactcg acaacaagga catccaaata tgggtgggccc aatgcagaga atgactcctc      600
caagaggaat ggtgccctta ggaccacaga actatggagg tgcaatgaga cccccactga      660
atgcttttagg tggcccttga atgcctggaa tgaacatggc tccagggtgt ggtagacctt      720
ggccaaaccc aacaaatgcc aattcaatac catactcctc agcatctcct gggaattatg      780
taggtcctcc aggaggttga gggccaccag gaacacccat catgcctagt ccagcagatt      840
caaccaactc tggtgataac atgtatactt taatgaatgc agtacctcct ggacctaaca      900
gacctaatct tccaatgggc cctgggtcag atgggtcccat ggggtggatta ggaggaatgg      960
agtcacatca catgaatggc tcttttaggt caggagatat ggacagtatt tccaagaatt     1020
ctcccaataa tatgagcctg agtaatcaac cgggcactcc aagggatgat ggcgaaatgg     1080
ggggaaatct cttaaactct tttcagagt agagtactc ccctagcatg acaatgagcg     1140
tgtgatccat taccaagtct cctcatgaaa accacagtga gtcagccctt cacagaacta     1200
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aaccaacctt ttcatttcct gctctctccc ctcttttgtg aagaaagcgg gtccagatgt     1320
gattcaaaca actgtacgga gtggcatatt agaattgccc taaactgaac tgcaaataat     1380
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catatacaca tacatacatt gaccacaggg acattgtaaa atattatcac atgacatcct     1500
aagtagaaat aagtagggac ttttattcca tccttttttt cacgtttaca ttttaattat     1560
tacaagttgc tcctgcccc tcctgaaact attttgtgt gtgtatatca ctgctttata     1620
taagttatct ttttaaggtga actcagatgt tatggttttg tatatgtctg caatcatgga     1680
taggaataaa atcgcttatt tgagagcttt caaaaaaaaaa aaaaaaaaaa c

```



Human interferon-induced cellular resistance mediator protein (MxB) mRNA,  
complete cds.

aagagatgat	ttctccatcc	tgaacgtgca	gcgagcttgt	caggaagatc	ggaggtgcc	60
agtagcagag	aaagcatccc	ccagctctga	cagggagaca	gcacatgtct	aaggccacaca	120
agccttggcc	ctaccggagg	agaagtcaat	tttcttctcg	aaaatacctg	aaaaaagaaa	180
tgaattcctt	ccagcaacag	ccaccgccat	tcggcacagt	gccaccacaa	atgatgtttc	240
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tcactttgaa	caatcagcca	ccaccaggaa	acaggagcca	accaagggca	atggggcccg	360
agaacaacct	gtacagccag	tacgagcaga	aggtgcgccc	ctgcattgac	ctcatcgact	420
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gcagcgggaat	cgtaaccagg	tgtccgctgg	tgctgaaact	gaaaaagcag	ccctgtgagg	600
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ttcccggcat	caccaggtg	gctgtggaca	accagccccg	agacatcgga	ctgcagatca	840
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aaagaaactt	tttaaaaacg	t				

## Human Ro/SSA ribonucleoprotein homolog (RoRet) mRNA, complete cds.

gacccacgcg	tccgaaaagc	tatggcctca	accaccagca	ccaagaagat	gatggaggaa	60
gccacctgct	ccatctgcct	gagcctgatg	acgaaccag	taagcatcaa	ctgtggacac	120
agctactgcc	acttgtgtat	aacagacttc	tttaaaaacc	caagccaaaa	gcaactgagg	180
caggagacat	tctgtgtcc	ccagtgtcgg	gtccatttc	atatggatag	cctccgaccc	240
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gcataagaag	tattttgagt	tgaagacaat	tgagaaaaaa	aaaaaaaaaa	aa	2872

Homo sapiens cDNA FLJ10465 fis, clone NT2RP1001616.

actctgctgc	cggctttctcg	gagcggcgct	gggcgaccag	agcagggctcg	agatgtccta	60
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gaatcccttc	tctgaagaca	agacggacaa	gggtgaggggg	tctgggggtcc	tgggaccgct	240
ccatggggca	cagggggcctg	agatgggtggg	tctctgcttc	ctggggcctgc	atggaaggaa	300
cagacttcat	ctctcaaacc	atgctctcta	agaaggcatc	ggaagtgacc	tagtgagaat	360
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Homo sapiens histone 2, H2aa, mRNA (cDNA clone MGC:2238 IMAGE:3536984), complete cds.

```

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ttaatgctga aaaaaaaaaa aaaaaaa

```

## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

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Homo sapiens mRNA; cDNA DKFZp564K2478 (from clone DKFZp564K2478); complete

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Homo sapiens cDNA FLJ20073 fis, clone COL02320.

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accagacatt	atgggcctgg	aagtactata	ggagtgacac	catcaccggt	gacatggtct	2940
tgccaaataa	ttaaacctga	atctgatcag	gtctctggat	cttatttgca	attcaaaaga	3000
aatttttaaaa	aaatcctact	aacaccacca	caaatatgca	atcagcaata	tccagaaagg	3060
ggaaattcac	aggacaaaaa	cctgggttttc	ttttttgggt	tcttcaacca	aaaaagaaag	3120
aaattgcaaa	ggaccaaaaa	aatggtgggg	aatctataca	ttataaggga	cttaacaact	3180
aaagggcaac	atatagactt	tagatcctaa	tttgagcaaa	atctaaaatc	aattattagg	3240
caatcagaaa	aatttgaaaca	cagactagat	atttgaggat	attaaggtac	tatattattg	3300



aagattccat	ggttatgttt	tttaaagagt	tcatgccttt	tagagataca	tactaaagta	3360
tttgtaaata	aatgacatga	tctagaaaaa	aaaaaaaaa	a		3401

Homo sapiens cDNA FLJ10913 fis, clone OVARC1000209, weakly similar to Oryza sativa submergence induced protein 2A mRNA.

gagcgcggcc	cctggggttcg	aacacggcac	cgcactgcg	cgtcatggtg	ctggcctggt	60
atatggacga	cgccccgggc	gacccgcggc	aacccaccg	ccccgaccc	ggccgcccag	120
tgggcctgga	gcagctgcgg	cggctcgggg	tgtctactg	gaagctggat	gctgacaaat	180
atgagaatga	tccagaatta	gaaaagatcc	gaagagagag	gaactactcc	tggatggaca	240
tcataaccat	atgcaaagat	aaactaccaa	attatgaaga	aaagattaag	atgttctacg	300
aggagcattt	gcacttggac	gatgagatcc	gctacatcct	ggatggcagt	gggtacttcg	360
acgtgaggga	caaggaggac	cagtggatcc	ggatcttcat	ggagaaggga	gacatggtga	420
cgtccccgc	ggggatctat	caccgcttca	cgggtggacga	gaagaactac	acgaaggcca	480
tgcggctgtt	tgtgggagaa	ccggtgtgga	cagcgtacaa	ccggcccgt	gaccattttg	540
aagcccgcgg	gcagtacgtg	aaatttctgg	cacagaccgc	ctagcagtgc	tgcctgggaa	600
ctaacacgtg	cctcgtaaag	gtccccaatg	taatgactga	gcagaaaatc	aatcactttc	660
tctttgcttt	tagaggatag	ccttgaggct	agattatctt	tcctttgtaa	gattatttga	720
tcagaatatt	ttgtaatgaa	aggatctaga	aagcaacttg	gaagtgtaaa	gagtcacctt	780
cattttctgt	aactcaatca	agactggtgg	gtccatggcc	ctgtgttagt	tcatgcattc	840
agttgagtcc	caaataaaa	tttcatctcc	cgaaatgcag	ttccttagat	gcccattctg	900
acgtgatgcc	gcgcctgccg	tgtagaagg	tgcaatccta	gataacacag	ctagccagat	960
agaagacact	tttttctcca	aatgatgcc	ttgggggtggg	gagtggtagt	gggaagagct	1020
cccaccctaa	ggggcacaca	ctgagttgct	tatgccaactt	ccttggtcaa	aataaagtaa	1080
ctgccttaat	cttatactca	tggcttggag	ttaccttata	ttcaggtata	tgtgatattt	1140
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taatttatat	atgagctgtg	ttagtatttt	tttcagtgtg	agatctctgg	attctttcac	1260
aataaagctg	ttgaatttta	acaggagtat	tagtacataa	atcttctact	caacaattcc	1320
gagataggat	tatgcctagt	ttgtcatatc	acagaaaaac	tccaagttaa	cttcatgttt	1380
tgggaaggga	ggtcgttttt	aaagtatttc	tttttttaac	tggatgaaaa	atcttcatgt	1440
taggattaat	tttcttaatc	acctccacac	tgtacagagg	aaactcaagc	cttaaatggt	1500
taagtaaact	ctgtctcagt	tttaggatta	aaatacccac	cgggtggtgtg	atgatgccat	1560
ataccgcagg	gcttgcttct	gtcaagtgtg	actctatctc	agtaattaaa	ataagtgtctg	1620
atctactg						1628

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

```

aaacgacagg ggaaaggagg tctcactgag caccgtccca gcatccggac accacagcgg      60
cccttcgctc cacgcagaaa accacacttc tcaaaccttc actcaacact tccttcccca      120
aagccagaag atgcacaagg aggaacatga ggtggctgtg ctggggggcac ccccagcac      180
catccttcca aggtccaccg tgatcaacat ccacagcgag acctccgtgc cggaccatgt      240
cgtctggtcc ctgttcaaca ccctcttctt gaactggtgc tgtctgggct tcatagcatt      300
cgctactcc gtgaagtcta gggacaggaa gatggttggc gacgtgaccg gggcccaggc      360
ctatgcctcc accgccaagt gcctgaacat ctgggccctg attctgggca tcctcatgac      420
cattggattc atcctgttac tggatttcgg ctctgtgaca gtctaccata ttatgttaca      480
gataatacag gaaaaacggg gttactagta gccgccata gcctgcaacc tttgcaactc      540
actgtgcaat gctggccctg cacgctgggg ctggttggcc tgcccccttg gtccctgccc      600
tagatacagc agtttatacc cacacacctg tctacagtgt cattcaataa agtgcacgtg      660
cttgtgaaaa aaaaaaaaaa aaa                                     683

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Homo sapiens cDNA: FLJ22242 fis, clone HRC02528.

aacttttaaa	aactctcatt	ggagtaagtc	ttttcaagat	gatcctccac	aatggaggca	60
gcgttcttac	ttgtcatcac	acagctgaag	acattgtttc	ttaggtgtga	aatcggggac	120
aaaggacaaa	cagagacaca	cggcattgtt	catgggaggc	atcgtcacc	tcctgggtgt	180
tctgtgggaa	tttcctgtgt	gaggaaaacg	tggccacagg	gttgtgctgt	accaccctt	240
ccccggcgag	atggccctcg	gcctgtgccg	ctgcttccac	cctcgccact	ccatggcagc	300
ttttgggtctg	tttcgggctc	tgccctctgc	cctgaactct	catccggctt	gtacctgcct	360
gctggacccc	tcacactgga	ggccagccca	tgtctcaggc	ccagccctag	cctcttctcc	420
tcaaattcta	agtgttttct	ctttagggtt	ccctggcttt	gtgaatggat	catgtgtctc	480
taggtataaa	cctgacatca	tctttccacc	cggcttacct	ccaccagatc	tcccagttc	540
tgtctccatc	ttctgcctgc	agctgctctg	ttctcatggc	cactgctgca	tcactgagtc	600
tggacccttg	ttatcatttt	caaactggcc	tccttccctc	gttccccact	tcttaaagtc	660
acctgtccat	tgccaccaga	ttaagctttc	tccagccaga	tcacctctct	ctgagaaacc	720
tccattgaca	tggaacacc	attgtctggc	acacatactc	acatacccac	cttcccgtct	780
tgatccccac	acatctttcc	agcctccctc	cccactccac	tcctgctctc	ctcctccacc	840
tccccatcct	cttgtctccc	ctcccctctg	aatccagccc	agcggggctt	ctcctgcctc	900
catcacatca	cagaagtacc	tcctgcttct	ggttttaatt	agagccttcc	ccgattacat	960
tttctctga	attttttctc	atctacattt	gatctgtcat	gtttaaaccc	cctacttcta	1020
agggaacttc	tctaattctc	tatcctcatc	cccaaatagt	gttttcttcc	tctgggttct	1080
tataatgttg	gtatcaatct	cacagcattt	agtgttccct	gcctgggtgtg	acagttacct	1140
gtgtgcatgt	gcaatttcta	atttcccacg	ctagactgtg	agcttcctaa	ggcaagaatc	1200
atgcctcggt	ggtttctgta	ttcctcatgg	tgccaaacac	agtgccttct	acattgcagg	1260
cgctgaataa	acatttttaa	agcaaaaaaa	aaaaaaaaaa			1300

ta77f02.x2 NCI\_CGAP\_HSC2 Homo sapiens cDNA clone IMAGE:2050107 3' similar  
to gb:L19779 HISTONE H2A.1 (HUMAN);, mRNA sequence.

```
tatacggctg cgagaagacg acagaagggg cacctgtgaa ctcaaaaggc tcttttcaga      60
gccacccacg ttttcaaata aaagagttgt taatgctggc cactcccaaa aaaaaaaaaa      120
aaaaaaaaaa agtcgtatcg a                                          141
```

H.sapiens centromere autoantigen C (CENPC) mRNA, complete cds.

cggatcgag	ctctcgcg	agtcgcctga	gacttaaggt	tattgcttgg	ccgcggcctg	60
gtattccggc	gattcggttc	ttgctcggt	tcctggagct	gtggtcctg	tgggcttcca	120
cctcagacag	ttgcgctggc	tcagcggggc	cggaacatgg	ctgcgtccgg	tctggatcat	180
ctcaaaaatg	gctacagaag	aagattttgt	cgaccttcca	gggcacgtga	cattaacaca	240
gagcaaggcc	agaatgttct	ggaaatctta	caagactgtt	ttgaagaaaa	aagtcttgcc	300
aatgatttta	gtacaaattc	tacaaaatca	gtgcctaatt	caacacgcaa	aataaaaagac	360
acttgatttc	agtcaccaag	caaagagtgc	cagaaatcac	atccaaagtc	agttccagtt	420
tcttcaaaga	agaaagaagc	ctctctacag	tttggtgtag	aaccaagtga	agccacaaac	480
agatcagttc	aggcccatga	agttcatcag	aaaattctgg	caactgatgt	tagttccaaa	540
aatacacctg	actcgaaaaa	aatatcaagt	agaaacataa	atgatcatca	cagtgaagct	600
gatgaagaat	tttacttatc	cgttggtctc	ccttctgttc	ttttggatgc	aaaaacatct	660
gtatcacaaa	atgttattcc	atctagtgcc	aaaaagagag	agacttacac	ttttgaaaat	720
tcagtaaata	tgtgccttcc	aagtacagag	gtttcagtta	aaacccaaaa	aagggttaaac	780
tttgatgata	aggttatgtt	aaagaaaata	gaaatagata	ataaagtatc	agatgaagag	840
gataaaacat	cggaaggaca	agaaagaaaa	ccatcaggat	catctcagaa	tagaatacga	900
gattcagaat	atgaaattca	acgacaagct	aaaaaaagtt	tttcaacatt	gttttttagaa	960
acagtaaaac	gaaaaagtga	atccagtcct	attgttaggc	atgctggcaac	tgctccacct	1020
cattcgtgtc	ctcccgatga	tacgaagttg	atagaggatg	aatttataat	tgatgagtcg	1080
gatcaaaagt	ttgccagtag	atcttggatt	acaataccaa	gaaaggcagg	gtctctgaaa	1140
caacgcacaa	tatccccggc	tgagagcact	gcactctttc	aaggtagaaa	gtcaagagaa	1200
aagcatcata	atatattacc	taagactttg	gcaaatagaa	aacattccca	taaacctcac	1260
ccagtagaga	catctcagcc	ctctgataaa	acagtactgg	atacaagtta	tgctttgata	1320
gatgaaacag	taaataatta	tagatctaca	aaatatgaaa	tgtattccaa	gaatgcagaa	1380
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ccagctgaag	aacagcttga	tgtgggacag	tctaaagatg	aaaacataca	tacatcacat	1500
attacccaag	acgaatttca	aagaaattca	gacagaaata	tggaaagagca	tgaagagatg	1560
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gaattaccaa	tgcatcacaa	tagtagccga	aaatctacta	agaaaacaaa	tcagtcatct	1860
aagaatatta	ggaaaaaaac	tattccactt	aaaaggcaga	agacagcaac	taaaggcaac	1920
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gcacagaatg	ttcccctaaa	gcctcagacc	agtggatata	catgtaatat	accaacagag	2160
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aaagtcaaca	aaaaatctaa	taagaaaagg	atctgtcttg	ataacgatga	aagaaaagact	2580
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ccttaaatat	atgtatgtat	atatgtatat	gtaaaaacag	tttgtatagt	tggaaatattt	3060
gtctttgtaa	ttacttgtga	tgttttaaaa	taaaaatttt	attcagtttt	gtgtaaaaaaa	3120
aaaaaaaaaa	aa					3132

## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tgcgcgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgctgtat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttgggtg	aatccccagg	cccttggttg	180
ggcacaaggt	ggcaggatgt	ctcagtggtg	cgaacttcag	cagcttgact	caaaattcct	240
ggagcaggtt	caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	300
acagtgggta	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	420
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ggaagaccca	atccagatgt	ctatgatcat	ttacagctgt	ctgaaggaag	aaaggaaaat	540
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tgtggtgatc	tccaacgtca	gccagctccc	gagcggttgg	gcctccatcc	tttggtagaa	1620
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gctttggatt	gaaagcatcc	tagaactcat	taaaaaacac	ctgctccctc	tctggaatga	1920
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aacatccaga	tacacccaaa	gtatcaggac	gagaatgagg	gtcctttggg	aaaggagaag	2760
ttaagcaaca	tctagcaaat	gttatgcata	aagtcagtg	ccaactgtta	taggttggtg	2820
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aattcttaca	tgttttcttt	gctttaagtg	taactggcag	ttttccattg	gtttacctgt	2940
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gacaaagaca	aattctgttt	cttgagaaga	gaatattagc	tttactgttt	gttatggctt	3120
aatgacacta	gctaatatca	atagaaggat	gtacatttcc	aaattcacaa	gttgtgtttg	3180
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gtagataaac	tcagaaat	aattcatg	tcttaa	gctact	cctttt	3360
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ctgaca	gaataa	ccagag	tatgaga	agatcatt	aaaact	3480
tccatg	ctgcatt	aactgc	gtttcg	tatatg	tttcac	3540
gogaat	ccattct	tccgtac	ttccaga	cttttt	tggatg	3600
ttcgtga	atactgt	tttac	tccttc	tactgac	aaaaag	3660
ttaagag	ggtttg	ggttc	ttttac	tgctgt	gtggct	3720
cttg	cactact	accaca	tattat	caa	attc	3780
ggtggag	aagatt	gagtt	ttaaa	agctaa	tctgt	3840
attaa	at	agtg	gtggc	ataca	aggc	3900
tctcag	tatatag	gcgaga	aagtt	tgatt	attgaa	3960
ctaaaaa	aagaag	cattaaaa	aatatt	cta		4003



## Homo sapiens ornithine decarboxylase (ODC1) mRNA, complete cds.

gaattcctgg	agagttgcct	ttgtgagaag	ctggaaatat	ttctttcaat	tccatctctt	60
agttttccat	aggaacatca	agaaatcatg	aacaactttg	gtaatgaaga	gtttgactgc	120
cacttctctg	atgaagggtt	tactgccaa	gacattctgg	accagaaaat	taatgaagtt	180
tcttcttctg	atgataagga	tgccttctat	gtggcagacc	tgggagacat	tctaaagaaa	240
catctgaggt	ggttaaaagc	tctccctcgt	gtcaccctct	tttatgcagt	caaagtgaat	300
gatatgaaag	ccatcgtgaa	gacccttgct	gctaccggga	caggatttga	ctgtgctagc	360
aagactgaaa	tacagttggt	gcagagtctg	ggggtgcctc	cagagaggat	tatctatgca	420
aatccttgta	aacaagtatc	tcaaattaag	tatgctgcta	ataatggagt	ccagatgatg	480
acttttgata	gtgaagttga	gttgatgaaa	gttgccagag	cacatcccaa	agcaaagttg	540
gttttgcgga	ttgccactga	tgattccaaa	gcagtctgtc	gtctcagtgt	gaaattcggg	600
gccacgctca	gaaccagcag	gctccttttg	gaacgggcga	aagagctaaa	tatcgatggt	660
gttggtgtca	gcttccatgt	aggaagcggc	tgtaccgatc	ctgagacctt	cgtgcaggca	720
atctctgatg	cccgtctgtg	ttttgacatg	ggggctgagg	ttggtttcag	catgtatctg	780
cttgatattg	gcggtggcct	tcctggatct	gaggatgtga	aacttaaatt	tgaagagatc	840
accggcgtaa	tcaaccagc	gttggacaaa	tactttccgt	cagactctgg	agtgagaatc	900
atagctgagc	ccggcagata	ctatgttgca	tcagctttca	cgcttgca	taatatcatt	960
gccaagaaaa	ttgtattaaa	ggaacagacg	ggctctgatg	acgaagatga	gtcgagtga	1020
cagaccttta	tgtattatgt	gaatgatggc	gtctatggat	catttaattg	catactctat	1080
gaccacgcac	atgtaaagcc	ccttctgcaa	aagagacctt	aaccagatga	gaagtattat	1140
tcatccagca	tatgggtgac	aacatgtgat	ggcctcgatc	ggattgttga	gcgctgtgac	1200
ctgcctgaaa	tgcattgtgg	tgattggatg	ctctttgaaa	acatgggcgc	ttacactggt	1260
gctgctgcct	ctacgttcaa	tggcttccag	aggccgacga	tctactatgt	gatgtcaggg	1320
cctgcgtggc	aactcatgca	gcaattccag	aaccccgact	tcccaccgga	agtagaggaa	1380
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gcagcctgtg	cttoggctag	tattaatgtg	tagatagcac	tctggtagct	gttaactgca	1500
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aatgtctttg	taagagtagg	gtcgccatga	tgcagccata	tggagacta	gcataatggg	1620
cacacttatc	tgtgttctta	tggaaaactat	ttgaatattt	gttttatatg	gattttttatt	1680
cactcttcag	acacgctact	caagagtgcc	cctcagctgc	tgaacaagca	tttgtagctt	1740
gtacaatggc	agaatggggc	aaaagcttag	tgttgtgacc	tgttttttaa	ataaagtatc	1800
ttgaaataat	taggc					1815

Homo sapiens hephaestin (HEPH) mRNA, complete cds.

cctgtttccc	agagtaatgt	gggccatgga	gtcaggccac	ctcctctggy	ctctgctgtt	60
catgcagtc	ttgtggcctc	aactgactga	tggagccact	cgagtctact	acctgggcat	120
ccgggatgtg	cagtggaaact	atgctcccaa	gggaagaaat	gtcatcacga	accagcctct	180
ggacagtgc	atagtggctt	ccagcttctt	aaagtctgac	aagaaccgga	taggggggaa	240
ctacaagaag	accatctata	aagaatacaa	ggatgactca	tacacagatg	aagtggccca	300
gcctgcctgg	ttgggcttcc	tggggccagt	gttgcaggct	gaagtggggg	atgtcattct	360
tattcacctg	aagaattttg	ccactcgtcc	ctataccatc	caccctcatg	gtgtcttcta	420
cgagaaggac	tctgaaggtt	ccctataccc	agatggctcc	tctggggccac	tgaaagctga	480
tgactctgtt	cccccggggg	gcagccatat	ctacaactgg	accattccag	aaggccatgc	540
accacccgat	gctgaccagg	cgtgcctcac	ctggatctac	cattctcatg	tagatgctcc	600
acgagacatt	gcaactggcc	taattggggc	tctcatcacc	tgtaaaagag	gagccctgga	660
tgggaactcc	cctcctcaac	gccaggatgt	agaccatgat	ttcttcctcc	tcttcagtgt	720
ggtagatgag	aacctcagct	ggcatctcaa	tgagaacatt	gccacttact	gtcagatcc	780
tgcttcagt	gacaaagaag	atgagacatt	tcaggagagc	aataggatgc	atgcaatcaa	840
tggctttgtt	tttgggaatt	tacctgagct	gaacatgtgt	gcacagaaac	gtgtggcctg	900
gcacttgttt	ggcatgggca	atgaaattga	tgtccacaca	gcatttttcc	atggacatgc	960
gctgactacc	cgtggacacc	acactgatgt	ggctaacatc	tttccagcca	cctttgtgac	1020
tgctgagatg	gtgccctggg	aacctgggtac	ctgggttaatt	agctgcacaag	tgaacagtca	1080
ctttcgagat	ggcatgcagg	cactctacaa	ggccaagtct	tgtccatggg	cccctcctgt	1140
ggacctgctc	acaggcgaag	ttcgacagta	cttcattgag	gcccattgaga	ttcaatggga	1200
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ctcagataag	ttttccaga	agagctccag	ccgaattggg	ggcacttact	ggaaagtgcg	1320
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ctacaaccgt	gcctcccagc	cattcagcat	gcagcccat	ggggtctttt	atgagaaaga	1500
ctatgaaggc	actgtgtaca	atgatggctc	atcttaccct	ggcttgggtg	ccaagccctt	1560
tgagaaagta	acataccgct	ggacagtccc	ccctcatgcc	ggctccactg	ctcaggatcc	1620
tgcttgtctc	acttggatgt	acttctctgc	tgcagatccc	ataagagaca	caaattctgg	1680
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gactgatgtg	catggagtca	tgttccaggg	caacactgtg	cagcttcagg	gcattgaggaa	2040
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tgggacattt	gagatttatt	gccaggcagg	cagccatcga	gaagcaggga	tgaggggcaat	2160
ctataatgtc	tcccagtgtc	ctggccacga	agccaccctc	cgccaacgct	accaagctgc	2220
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ggaacgggaa	tggcacaacc	agtctgagaa	ggacagttat	ggttacattt	tcctgagcaa	2340
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aggacggagt	gacatggatc	gggaatttgc	attgttgttc	ttgatttttg	atgaaaataa	2820
gtcttggat	ttggaggaaa	atgtggcaac	ccatgggtcc	caggatccag	gcagtattaa	2880
cctacaggat	gaaactttct	tggagagcaa	taaaatgcat	gcaatcaatg	ggaaactcta	2940
tgccaacctt	aggggtctta	ccatgtacca	aggagaacga	gtggcctggt	acatgctggc	3000
catgggcca	gatgtggatc	tacacaccat	ccactttcat	gcagagagct	tcctctatcg	3060
gaatggcgag	aactaccggg	cagatgtggt	ggatctgttc	ccagggactt	ttgaggttgt	3120
ggagatggtg	gccagcaacc	ctgggacatg	gctgatgcac	tgccatgtga	ctgaccatgt	3180
ccatgctggc	atggagaccc	tcttcactgt	tttttctcga	acagaacact	taagccctct	3240
caccgtcatc	accaaagaga	ctgaaaaagc	agtgtccccc	agagacattg	aagaaggcaa	3300

tgtgaagatg	ctgggcatgc	agatccccat	aaagaatggt	gagatgctgg	cctctgtttt	3360
ggttgccatt	agtgtcacc	ttctgctcgt	tgttctggct	cttgggtggag	tggtttggtta	3420
ccaacatcga	cagagaaagc	tacgacgcaa	taggaggtcc	atcctggatg	acagcttcaa	3480
gcttctgtct	ttcaaacagt	aacatctgga	gcctggagat	atcctcagga	agcacatctg	3540
tagtgactc	ccagcaggcc	atggactagt	cactaacccc	acactcaaag	gggcatgggt	3600
ggtggagaag	cagaaggagc	aatcaagctt	atctggatat	ttctttcttt	atttatttta	3660
catggaaata	atatgatttc	actttttctt	tagttttctt	gctctacgtg	ggcacctggc	3720
actaaggag	taccttatta	tcctacatcg	caaatttcaa	cagctacatt	atatttcctt	3780
ctgacacttg	gaaggtattg	aaatttctag	aaatgtatcc	ttctcacaaa	gtagagacca	3840
agagaaaaac	tcattgattg	ggtttctact	tctttcaagg	actcaggaaa	tttcactttg	3900
aactgaggcc	aagtgagctg	ttaagataac	ccacacttaa	actaaaggct	aagaatatag	3960
gcttgatggg	aaattgaagg	taggctgagt	attgggaatc	caaattgaat	tttgattctc	4020
cttggcagtg	aactactttg	aagaagtgg	caatgggttg	ttgctgccat	gagcatgtac	4080
aacctctgga	gctagaagct	cctcaggaaa	gccagttctc	caagttctta	acctgtggca	4140
ctgaaaggaa	tgttgagtta	cctcttcatg	ttttagacag	caaaccctat	ccattaaagt	4200
acttgtaga	acact					4215

## Human 18S rRNA gene, complete.

c c g t c c g t c c	g t c g t c e t c c	t c g e t t g c g g	g g c g c c g g g c	c c g t c e t c g a	g c c c c c n n n n	60
n c c g t c c g g c	c g c g t c g g g g	c c t c g c c g c g	c t c t a c c t a c	c t a c c t g g t t	g a t c c t g c c a	120
g t a g c a t a t g	c t t g t c t c a a	a g a t t a a g c c	a t g c a t g t c t	a a g t a c g c a c	g g c c g g t a c a	180
g t g a a a c t g c	g a a t g g g t c a	t t a a a t c a g t	t a t g g t t c e t	t t g g t c g t c c	g c t c c t c t c c	240
t a c t t g g a t a	a c t g t g g t a a	t t c t a g a g c t	a a t a c a t g c c	g a c g g g c g c t	g a c c c c c t t c	300
g c g g g g g g g a	t g c g t g c a t t	t a t c a g a t c a	a a a c c a a c c c	g g t c a g c c c c	t c t c c g g c c c	360
c g g c c g g g g g	g c g g g c c g c g	g c g g c t t t g g	t g a c t c t a g a	t a a c c t c g g g	c c g a t c g c a c	420
g c c c c c c g t g	g c g g c g a c g a	c c c a t t c g a a	c g t c t g c c c t	a t c a a c t t t c	g a t g g t a g t c	480
g c c g t g c c t a	c c a t g g t g a c	c a c g g g t g a c	g g g g a a t c a g	g g t t c g a t t c	c g g a g a g g g a	540
g c c t g a g a a a	c g g c t a c c a c	a t c c a a g g a a	g g c a g c a g g c	g c g c a a a t t a	c c c a c t c c c g	600
a c c c g g g g a g	g t a g t g a c g a	a a a a t a a c a a	t a c a g g a c t c	t t t c g a g g c c	c t g t a a t t g g	660
a a t g a g t c c a	c t t t a a a t c c	t t t a a c g a g g	a t c c a t t g g a	g g g c a a g t c t	g g t g c c a g c a	720
g c c g c g g t a a	t t c c a g c t c c	a a t a g c g t a t	a t t a a a g t t g	c t g c a g t t a a	a a a g c t c g t a	780
g t t g g a t c t t	g g g a g c g g g g	g g g c g g t c c g	c c g c g a g g c g	a g c c a c c g c c	c g t c c c c g c c	840
c c t t g c c t c t	c g g c g c c c c c	t c g a t g c t c t	t a g t c g a g t g	t c c c g c g g g g	c c c g a a g c g t	900
t t a c t t t g a a	a a a a t t a g a g	t g t t c a a a g c	a g g c c c g a g c	c g c c t g g a t a	c c g c a g c t a g	960
g a a t a a t g g a	a t a g g a c c g c	g g t t c t a t t t	t g t t g g t t t t	c g g a a c t g a g	g c c a t g a t t a	1020
a g a g g g a c g g	c c g g g g g c a t	t c g t a t t g c g	c c g c t a g a g g	t g a a a t t c t t	g g a c c g g c g c	1080
a a g a c g g a c c	a g a g c g a a a g	c a t t t g c c a a	g a a t g t t t t c	a t t a a t c a a g	a a c g a a a g t c	1140
g g a g g t t c g a	a g a c g a t c a g	a t a c c g t c g t	a g t t c c g a c c	a t a a a c g a t g	c c g a c c g g c g	1200
a t g c g g c g g c	g t t a t t c c c a	t g a c c c g c c g	g g c a g c t t c c	g g g a a a c c a a	a g t c t t t g g g	1260
t t c c g g g g g g	a g t a t g g t t g	c a a a g c t g a a	a c t t a a a g g a	a t t g a c g g a a	g g g c a c c a c c	1320
a g g a g t g g a g	c c t g c g g c t t	a a t t t g a c t c	a a c a c g g g a a	a c c t a c c c c g	g c c c g g a c a c	1380
g g a c a g g a t t	g a c a g a t t g a	t a g c t c t t t c	t c g a t t c c g t	g g g t g g t g g t	g c a t g g c c g t	1440
t c t t a g t t g g	t g g a g c g a t t	t g t c t g g t t a	a t t c c g a t a a	c g a a c g a g a c	t c t g g c a t g c	1500
t a a c t a g t t a	c g c g a c c c c c	g a g c g g t c g g	c g t c c c c c a a	c t t c t t a g a g	g g a c a a g t g g	1560
c g t t c a g c c a	c c c g a g a t t g	a g c a a t a a c a	g g t c t g t g a t	g c c c t t a g a t	g t c c g g g g c t	1620
g c a c g c g c g c	t a c a c t g a c t	g g c t c a g c g t	g t g c c t a c c c	t a c g c c g g c a	g g c g c g g g t a	1680
a c c c g t t g a a	c c c c a t t c g t	g a t g g g g a t c	g g g g a t t g c a	a t t a t t c c c c	a t g a a c g a g g	1740
a a t t c c c a g t	a a g t g c g g g t	c a t a a g c t t g	c g t t g a t t a a	g t c c c t g c c c	t t t g t a c a c a	1800
c c g c c c g t c g	c t a c t a c c g a	t t g g a t g g t t	t a g t g a g g c c	c t c g g a t c g g	c c c c g c c g g g	1860
g t c g g c c c a c	g g c c t g g c g g	a g c g c t g a g a	a g a c g g t c g a	a c t t g a c t a t	c t a g a g g a a g	1920
t a a a a g t c g t	a a c a a g g t t t	c c g t a g g t g a	a c c t g c g g a a	g g a t c a t t a		1969

Homo sapiens cell death regulator aven mRNA, complete cds.

gggcgtctcc	gcagctcggc	tcccgcgcg	tcagcaccac	cagcggcgcc	agatgcaggc	60
ggagcgagga	gctcggggag	gccgtgggcg	gcggccaggc	cgcggccggc	ctggcggaga	120
tcgccacagc	gagcgggccg	gagccgcagc	ggcggtagcc	agaggcggcg	gcggaggcgg	180
cggcggggac	ggaggcggac	gccggggccg	tggccgtggc	cggggcttcc	gcggcgctcg	240
cggaggccga	ggaggaggag	gcgcccgcg	aggcagccgc	cgggagccgg	gaggctgggg	300
cgcagggggc	agcgcgcgg	ttgaagatga	cagcgatgca	gagacctatg	gagaagagaa	360
tgatgaacag	ggaaattatt	ctaaaagaaa	gattgtctct	aactgggac	gatatcaaga	420
tattgaaaaa	gaggtcaata	atgaaagtgg	agagtcacag	aggggaacag	atttcagtgt	480
cctccttagc	tctgcagggg	actcattctc	acagttccgg	tttgctgagg	agaaagaatg	540
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gggattaggg	atgcagttaa	aggggcoctt	ggggcoctgga	ggaagggggc	ccatctttga	780
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tacctcaaaa	aatgttaccg	aggaagagct	ggaagactgg	ttggacagca	tgatttctta	1140
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aaggctgtcc	ttcaggacca	gccagtttac	aagcatgtct	caagctagtg	tgttccatta	1260
tgctcacagc	agtaaagcc	tacctctgtg	tttgacatct	gaaagaatac	attgaagcag	1320
cttggttgc	ttgtttttct	ggcttagtaa	tctaatagat	ttccttaagg	gcaggagata	1380
gactctggcc	cttggtttcta	gcctccttcc	ttgcagtgtt	tacaacatag	ccagtgttta	1440
cagcatagca	gatgctgctg	ctggttaaga	gaatagatgc	aaacaaggca	tgcatttggc	1500
caaaataaac	aatgctggt	ctgtccaaaa	aannaaaaaa	aaaaaaaaa		1549

Homo sapiens interferon, gamma-inducible protein 16, mRNA (cDNA clone MGC:9466 IMAGE:3914632), complete cds.

gcagaatagg	agcaagccag	cactagtcag	ctaactaagt	gactcaacca	aggccttttt	60
tccttggtat	ctttgcagat	acttcatttt	cttagcgttt	ctggagatta	caacatcctg	120
cggttccgtt	tctgggaact	ttactgattt	atctccccc	tcacacaaat	aagcattgat	180
tcctgcattt	ctgaagatct	caagatctgg	actactgttg	aaaaaatttc	cagtgaggct	240
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aaattcagga	tgatagagga	aaaatggatg	tagtggggac	aggacaatgt	cacaatatcc	1320
cctgtgaaga	aggagataag	ctccaaactt	tctgctttcg	acttagaaaa	aagaaccaga	1380
tgtaaaaact	gatttcagaa	atgcatagtt	ttatccagat	aaagaaaaaa	acaaaccoga	1440
gaaacaatga	ccccaaagagc	atgaagctac	cccaggaaca	gagtcagctt	ccaaatcctt	1500
cagaggccag	cacaaccttc	cctgagagcc	atcttcggac	tcctcagatg	ccaccaacaa	1560
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tccgagtgaa	ggttttttaat	attgacctaa	aggagaagtt	cacccccaaag	aagatcattg	1980
ccatagcaaa	ttatgtttgc	cgcaatgggt	tcctggagggt	atatcctttc	acacttgtgg	2040
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ttgaaataca	acactataca	tacacaccac	catatatact	agctgttaat	cctatggaat	2580
gggtatttgg	gagtgctttt	ttaatttttt	atagtttttt	tttaataaaa	tggcatattt	2640
tgcatctaca	acttctataa	tttgaaaaaa	taaataaaca	ttatcttttt	tgtgaaaaaa	2700
aaaaaaaa						2709

Homo sapiens guanylate binding protein 1, interferon-inducible, 67kDa, mRNA  
(cDNA clone MGC:3949 IMAGE:3606865), complete cds.

ggagtcagtg	atttgaacga	agtactttca	gtttcatatt	actctaaatc	cattacaaat	60
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gctgacacat	agaatccgat	caaaatcctc	acctgatgag	aatgagaatg	aggttgagga	720
ttcagctgac	tttgtgagct	tcttccocaga	ctttgtgtgg	acactgagag	atttctccct	780
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ataacaccaa	aagtttataa	aggcatgtgg	tacaatgac	aaaatcatgt	tttttcttaa	2160
aaaaaaaaaa	aaaaaa					2176

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

```

aaacgacagg ggaaaggagg tctcactgag caccgtccca gcatccggac accacagcgg      60
cccttcgctc cagcgagaaa accacacttc tcaaacottc actcaacact tccttcccca      120
aagccagaag atgcacaagg aggaacatga ggtggctgtg ctggggggcac cccccagcac      180
catccttcca aggtccaccg tgatcaacat ccacagcgag acctccgtgc ccgaccatgt      240
cgtctgggtc ctgttcaaca ccctcttctt gaactggtgc tgtctgggct tcatagcatt      300
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tagatacagc agtttatacc cacacacctg totacagtgt cattcaataa agtgcacgtg      660
cttgtgaaaa aaaaaaaaaa aaa                                     683

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## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tgcgcgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgctgtat	60
gccatcctcg	agagctgtct	aggttaacgt	tgcgactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttgggtg	aatccccagg	cccttggttg	180
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ggagcaggtt	caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	300
acagtgggtt	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	420
taacttcttg	ctacagcata	acataaggaa	aagcaagcgt	aatcttcagg	ataattttca	480
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gttagacaaa	cagaaagagc	ttgacagtaa	agtcagaaat	gtgaaggaca	aggttatgtg	660
tatagagcat	gaaatcaaga	gcctggaaga	tttacaagat	gaatatgact	tcaaattgcaa	720
<del>aaecttgcag</del>	<del>aaagagaga</del>	<del>aagagaccaa</del>	<del>tgggtgtggca</del>	<del>aagagtgatc</del>	<del>agaaacaaga</del>	<del>780</del>
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ctaaaaaaca	aagaagacaa	cattaaaaac	aatattgttt	cta		4003

Homo sapiens phospholipid scramblase 1, mRNA (cDNA clone IMAGE:4253596), complete cds.

gagaagggtg	cgcagcagct	gtgcccggca	gtctagaggc	gcagaagagg	aagccatcgc	60
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ctgttttaaat	catggacaaa	caaaactcac	agatgaatgc	ttctcaccgc	gaaacaaaact	180
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aaa						1143

Homo sapiens metalloprotease disintegrin cysteine-rich protein, secreted form mRNA, complete cds.

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Homo sapiens matrix metalloproteinase 7 (matrilysin, uterine), mRNA (cDNA clone MGC:3913 IMAGE:3545760), complete cds.

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atgtttattc catggtaaat ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

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## Homo sapiens cDNA FLJ10650 fis, clone NT2RP2005853

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ggcatccacc	ccaaagactt	caaaagcttg	aaccattga	cttgccacga	gtaattactt	480
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## Homo sapiens transcription factor ISGF-3 mRNA, complete cds

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## Homo sapiens RNA helicase (RIG-I) mRNA, complete cds.

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aaaaa						3065



Homo sapiens melanoma differentiation associated protein-5 (MDA5) mRNA,  
complete cds.

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cccattgacac	agaatgaaca	aaaagaagtc	attagtaaat	ttcgactggg	aaaaatcaat	2520
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gaattaccta	tcacattthc	caatcttgac	tattcagaat	gctgtthatt	tagtgatgag	3240

gattagcact	tgattgaaga	ttcttttaaa	atactatcag	ttaaacattt	aatatgatta	3300
tgattaatgt	attcattatg	ctacagaact	gacataagaa	tcaataaaat	gattgtttta	3360
ctctgaaaaa	aaaaaaaaaa					3380

Homo sapiens signal transducer and activator of transcription 1, 91kDa, transcript variant beta, mRNA (cDNA clone MGC:3493 IMAGE:3627218), complete cds.

tcgcttttcc	gcgagagtc	tgcggagggg	ctcggctgca	ccgggggggat	cgcgctggc	60
agaccccaga	ccgagcagag	gcgacccagc	gcgctcggga	gaggctgcac	cgccgcgccc	120
ccgcctagcc	cttccggatc	ctgcgcgcag	aaaagtttca	tttgctgtat	gccatcctcg	180
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ggcaggatgt	ctcagtggtg	cgaacttcag	cagcttgact	caaaattcct	ggagcagggt	360
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<del>gcccagagat</del>	<del>ttaateagge</del>	<del>teagtegggg</del>	<del>aatatteaga</del>	<del>geaacgtgat</del>	<del>gttagaaaaa</del>	<del>720</del>
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aacagagaac	acgagaccac	tggtgtggca	aagagtgtat	agaaacaaga	acagtgttta	900
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tggacgaggt	tttgtaagga	aaatataaat	gataaaaatt	ttcccttctg	gctttggatt	1980
gaaagcatcc	tagaactcat	taaaaaacac	ctgctccctc	tctggaatga	tgggtgcac	2040
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cgggccaga	acggaggcga	acctgacttc	catgcggttg	aaccctacac	gaagaaagaa	2220
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attcctgaga	atccctgaa	gtatctgtat	ccaaatattg	acaaagacca	tgcccttgga	2340
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tgacatgttt	acaaacctca	agccagcctt	gctcctggct	ggggcctgtt	gaagatgctt	2520
gtattttact	tttccattgt	aattgctatc	gccatcacag	ctgaacttgt	tgagatcccc	2580
gtgttactgc	ctatcagcat	tttactactt	taaaaaaaaa	aaaaaaaaaa		2629

Homo sapiens cDNA: FLJ21350 fis, clone COL02751.

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ggaggataat	tgatgaagg	attattttct	tctttgttta	tgtgcaagaa	atgaaaataa	120
ggaattgctt	tgatcagaca	acttcttata	tttgtggtag	aaacagaact	gcccttcttg	180
gagtggctct	gcctctgaga	tcactacagg	ggagacagca	tgccctgttc	agctggctga	240
atatttggca	acaatctcct	gaagcagctg	gaattgacaa	gaagtactgg	agattagctc	300
gggccaacc	cttacatctg	gcctgactac	tgctgcagtc	tgccctcaact	taccctctaa	360
gctggggaga	tgccaccac	ccacatcttt	gctacacatg	ccatcatgag	ctagagttca	420
ccctttctcc	ttaaagccct	atttactttt	ctacttcaac	tttaaaacaa	aattaaaatg	480
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taatacatta	catatagacc	taaagaaagt	tcatcagggt	taatcatttg	tcacatcatt	600
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gatccagctc	tgtcacccag	gctggagtg	agatcaaaag	tatcatttct	cttacttcaa	720
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tgcccaagat	gttgggcttc	tcttttgcca	gccacattgg	tagcactctc	ctgccctggc	900
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ctccatctca	aaaaaaaaaa	aaaaa				1765

## Homo sapiens IFI16b (IFI16b) mRNA, complete cds.

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tgaaaaaaa	a					4151

Homo sapiens mRNA for STAT induced STAT inhibitor-2, complete cds.

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ctatcatatg	tgtcaaatcc	aagcttaaac	aatttgacag	tgtggttcat	ctgatcgact	420
actatgttca	gatgtgcaag	gataagcgga	caggtccaga	agcccccg	aacggcactg	480
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aagattactt	ggaagaatat	aaattccagg	tataaatgtt	tctctttttt	taaacatgtc	660
tcacatagag	tatctccgaa	tgcagctatg	taaaagagaa	ccaa		704

Homo sapiens transcription factor ISGF-3 mRNA, complete cds.						
attaaacctc	tgcgagagcc	cctccgcaga	ctctgcgccg	gaaagtttca	tttgcgtgat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
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acagtggtta	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
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Homo sapiens pancreas sodium bicarbonate cotransporter mRNA, complete cds.

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Homo sapiens interferon stimulated T-cell alpha chemoattractant precursor, mRNA, complete cds.

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Homo sapiens mRNA; cDNA DKFZp586J0323 (from clone DKFZp586J0323)

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tttaaaaaaa	aaaaaaaaaa					2480

Homo sapiens cDNA FLJ20637 fis, clone KAT03212.

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				2010

*Homo sapiens* sodium bicarbonate cotransporter (HNBC1) mRNA, complete cds.

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Human BRCA1-associated RING domain protein (BARD1) mRNA, complete cds.

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agtcattgta	ctgtttttta	tgttcacatt	tttacaata	ggtagagtca	ttcatatttg	2520
tctttgaatc						2530

## Human 18S rRNA gene, complete.

ccgtccgtcc	gtcgtccctcc	tcgcttgccg	ggcgccgggc	ccgtccctcga	gccccnnnn	60
nccgtccggc	cgcgccgggg	cctcgccgcg	ctctacctac	ctacctgggt	gatccctgcca	120
gtagcatatg	cttgtctcaa	agattaagcc	atgcatgtct	aagtacgcac	ggccgggtaca	180
gtgaaactgc	gaatgggtca	ttaaatacagt	tatgggttcct	ttggtcgctc	gctcctctcc	240
tacttgata	actgtggtaa	ttctagagct	aatacatgcc	gacgggcgct	gaccccccttc	300
gcggggggga	tgcgtgcatt	tatcagatca	aaaccaaccc	ggtcagcccc	tctccggccc	360
cgcccggggg	gcgggcccgc	gcggctttgg	tgactctaga	taacctcggg	ccgatcgcac	420
gccccccgtg	gcggcgacga	cccattcgaa	cgtctgccct	atcaactttc	gatggtagtc	480
gccgtgccta	ccatggtgac	cacgggtgac	ggggaatcag	ggttcgattc	cggagagggga	540
gcctgagaaa	cggctaccac	atccaaggaa	ggcagcaggc	gcgcaaatta	cccactcccc	600
acccggggag	gtagtgacga	aaaataacaa	tacaggactc	tttcgaggcc	ctgtaattgg	660
aatgagtcga	ctttaaattcc	tttaacgagg	atccattgga	gggcaagtct	ggtgccagca	720
gccgcggtaa	ttccagctcc	aatagcgtat	attaaagttg	ctgcagttaa	aaagctcgta	780
gttgatctt	gggagcgggc	gggcgggtccg	ccgcgaggcg	agccaccgcc	cgtccccgcc	840
ccttgccctct	cggcgccccc	tcgatgctct	tagctgagtg	tcccgcgggg	ccgaaagcgt	900
ttactttgaa	aaaattagag	tgttcaaagc	aggcccagac	cgctggata	ccgcagctag	960
gaataatgga	ataggaccgc	ggttctatct	tgttggtttt	cggaactgag	gccatgatta	1020
agagggacgg	ccgggggcat	tcgtattgct	ccgctagagg	tgaaattctt	ggaccggcgc	1080
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ggaggttcga	agacgatcag	ataccgtcgt	agttccgacc	ataaacgatg	ccgaccggcg	1200
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taactagtta	cgcgaccccc	gagcgggtcg	cgtcccccaa	cttcttagag	ggacaagtgg	1560
cgttcagcca	cccagagattg	agcaataaca	ggtctgtgat	gcccttagat	gtccggggct	1620
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aattcccagt	aagtgcgggt	cataagcttg	cgttgattaa	gtccctgccc	tttgtacaca	1800
ccgcccgtcg	ctactaccga	ttggatgggt	tagtgaggcc	ctcggatcgg	ccccgccggg	1860
gtcggcccac	ggcctggcgg	agcgtgaga	agacggtcga	acttgactat	ctagaggaag	1920
taaaagtcgt	aacaagggtt	ccgtaggtga	acctgcggaa	ggatcatta		1969

## Human mRNA for 56-KDa protein induced by interferon

ccagatctca	gaggagcctg	gctaagcaaa	accctgcaga	acggctgcct	aatttacagc	60
aaccatgagt	acaaatggtg	atgatcatca	ggccaaggat	agtctggagc	aattgagatg	120
tcactttaca	tgggagttat	ccattgatga	cgatgaaatg	cctgatttag	aaaacagagt	180
cttggatcag	attgaattcc	tagacaccaa	atacagtgtg	ggaatacaca	acctactagc	240
ctatgtgaaa	cacctgaaag	gccagaatga	ggaagccctg	aagagcttaa	aagaagctga	300
aaacttaatg	caggaagaac	atgacaacca	agcaaattgtg	aggagtctgg	tgacctgggg	360
caactttgcc	tggatgtatt	accacatggg	cagactggca	gaagcccaga	cttacctgga	420
caaggtagag	aacatttgca	agaagctttc	aaatcccttc	cgctatagaa	tggagtgtcc	480
agaaatagac	tgtgaggaag	gatgggcctt	gctgaagtgt	ggaggaaaga	attatgaacg	540
ggccaaggcc	tgctttgaaa	aggtgcttga	agtggaccct	gaaaaccctg	aatccagcgc	600
tgggtatgcg	atctctgcct	atcgcttga	tggctttaaa	ttagccacaa	aaaatcacia	660
gccattttct	ttgcttcccc	taaggcaggg	tgtccgctta	aatccagaca	atggatatat	720
taaggttctc	cttgccctga	agcttcagga	tgaaggacag	gaagctgaag	gagaaaagta	780
cattgaagaa	gctctagcca	acatgtcctc	acagacctat	gtctttcgat	atgcagccaa	840
gtttttaccga	agaaaaggct	ctgtggataa	agctcttgag	ttattaaaaa	aggccttgca	900
ggaaacaccc	acttctgtct	tactgcatca	ccagataggg	ctttgctaca	aggcacaaat	960
gatccaaatc	aaggaggcta	caaaaggcca	gcctagaggg	cagaacagag	aaaagctaga	1020
caaatgata	agatcagcca	tatttcattt	tgaatctgca	gtggaaaaaa	agccqacatt	1080
tgaggtaggt	catctagacc	tggcaagaat	gtatatagaa	gcaggcaatc	acagaaaagc	1140
tgaagagaat	tttcaaaaat	tgttatgcat	gaaaccagtg	gtagaagaaa	caatgcaaga	1200
catcacattc	tactatggtc	ggtttcagga	atttcaaaaag	aaatctgacg	tcaatgcaat	1260
tatccattat	ttaaaagcta	taaaaataga	acaggcatca	ttaacaaggg	ataaaaagtat	1320
caattctttg	aagaaattgg	ttttaaggaa	acttcggaga	aaggcattag	atctggaaag	1380
cttgagcctc	cttgggttcg	tctacaaatt	ggaaggaaat	atgaatgaag	ccctggagta	1440
ctatgagcgg	gccctgagac	tggctgctga	ctttgagaac	tctgtgagac	aaggctctta	1500
ggcaccacaga	tatcagccac	tttcacattt	catttcattt	tatgctaaca	tttactaatc	1560
atcttttctg	cttactgttt	tcagaaacat	tataattcac	tgtaatgatg	taattcttga	1620
ataataaata	tgacaaaata	tt				1642

qx82h04.x1 NCI\_CGAP\_GC6 Homo sapiens cDNA clone IMAGE:2009047 3', mRNA  
sequence.

gcagctaaat	taaaatgacc	ttttatattgc	ctggacaaca	aaaattttcc	atgattttgc	60
ttttttgaaa	caatgataag	aaattttttt	ttaggcaata	agatactaag	ttgtatcaac	120
aaactgcatg	ggatattttc	acaaggagag	gattttgttc	cctgatctag	tttacgtgac	180
attttccctt	atgcttgctt	tctctgagct	gactcttctt	aaactgacct	agatggtacc	240
ctatttcaac	tgactcagag	ttcattcaaa	aatatgatat	ggtgacttgg	cttcactgac	300
atgaaatcca	ggcactctct	ctactcttgc	tcacattctt	ccttgcccaa	ggttccagcg	360
tgattttagg	atatcttatg	ccaaccagct	gtgccgtcac	ttctcagaga	tgtagggcca	420

Human interferon-induced cellular resistance mediator protein (MxA) mRNA,  
complete cds.

ggaattctgt	ggccatactg	cgaggagatc	ggttccgggt	cggaggctac	aggaagactc	60
ccactccctg	aaatctggag	tgaagaacgc	cgccatccag	ccaccattcc	aaggagggtgc	120
aggagaacag	ctctgtgata	ccattttaact	tgttgacatt	acttttattt	gaaggaaactg	180
atatttagagc	ttacttttgca	aagaaggaag	atgggtgttt	ccgaagtggga	catcgcaaaa	240
gctgatccag	ctgctgcatc	ccaccctcta	ttactgaatg	gagatgctac	tgtggcccgag	300
aaaaatccag	gctcgggtggc	cgagaacaac	ctgtgcagcc	agtatgagga	gaagggtgcgc	360
ccctgcatcg	acctcattga	ctccctgcgg	gctctaggtg	tggagcagga	cctggccctg	420
ccagccatcg	ccgtcatcgg	ggaccagagc	tccggcaaga	gctccgtgtt	ggaggcactg	480
tcaggagtgtg	cccttcccag	aggcagcggg	atcgtgacca	gatgcccgt	ggtgctgaaa	540
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attgagatttt	cggatgcttc	agaggtagaa	aaggaaatta	ataaagccca	gaatgccatc	660
gccgggggaag	gaatgggaat	cagtcattgag	ctaataccccc	gtgagatcag	ctcccagat	720
gtcccgggatc	tgactctaata	agaccttcct	ggcataacca	gagtggctgt	gggcaatcag	780
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gatctgctgg	aggaaggaaa	ggccacggtt	ccctgcctgg	cagaaaaact	taccagcgag	1200
ctcatcacac	atatctgtaa	atctctgccc	ctgttagaaa	atcaaatcaa	ggagactcac	1260
cagagaataa	cagaggagct	acaaaagtat	ggtgtcgaca	taccggaaga	cgaaaatgaa	1320
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caaggagagg	aaactgtagg	ggaggaagac	attcggctgt	ttaccagact	ccgacacgag	1440
ttccacaaat	ggagtacaat	aattgaaaac	aattttcaag	aaggccataa	aatttttagt	1500
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aattttgaag	agtttttttaa	cctccacaga	accgccaagt	ccaaaattga	agacattaga	1740
gcagaacaag	agagagaagg	tgagaagctg	atccgcctcc	acttccagat	ggaacagatt	1800
gtctactgcc	aggaccaggt	atacaggggt	gcattgcaga	aggtcagaga	gaaggagctg	1860
gaagaagaaa	agaagaagaa	atcctgggat	tttggggctt	tccaatccag	ctcggcaaca	1920
gactcttcca	tggaggagat	ctttcagcac	ctgatggcct	atcaccagga	ggccagcaag	1980
cgcatctcca	gccacatccc	tttgatcatc	cagttcttca	tgctccagac	gtacggccag	2040
cagcttcaga	aggccatgct	gcagctcctg	caggacaagg	acacctacag	ctggctcctg	2100
aaggagcggg	gcgacaccag	cgacaagcgg	aagttcctga	aggagcggct	tgcacggctg	2160
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tgctcagtag	tcagactgga	tagtccgttc	ctgcttatcc	gttagccgtg	gtgatttagc	2340
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aacatcacag	cttatttcct	cattttttata	atgtcccttc	acaaacccag	tgttttagga	2580
gcatgagtgc	cgtgtgtgtg	cgtcctgtcg	gagccctgtc	tctctctctg	taataaaactc	2640
atttctagca	g					2651

Homo sapiens cDNA: FLJ21726 fis, clone COLF1088.

agtgc	atgga	gagag	ggt	gtt	ctaa	ag	atggg	agaaa	tgacag	cgtg	catgt	gtg	cc	60
gatgg	gag	atc	acccc	ataga	gaagga	aagaa	agcagt	gaca	gaggag	agga	ctgct	cct	tg	120
tcctt	gag	ta	gttgg	ccaag	ggagag	acct	cctgc	acaaa	tggagg	gttt	ggcct	cac	gc	180
agaa	aga	aagc	acact	tgg	tt	catcc	ctggc	agcagg	aggg	aaggc	gtggg	tgt	aggg	240
agggc	gtg	g	gaggg	gat	ct	tttgg	gtg	ct	tatttt	ct	cagt	gaa	ata	300
gagc	agc	agt	ggac	ggt	gag	aatggg	gat	gt	ttcc	atcca	gcttt	cagg	g	360
tagt	gcccc	g	tggct	ggc	ct	gtgtt	ctggg	gacagt	ca	ct	ggcc	acat	gc	420
atc	aggc	agc	agagg	ctg	cc	ttggg	cagga	cagag	acagg	cccgc	caact	aat	gtg	480
ttttt	gcctc	g	gcctc	cagg	g	actgt	ccaac	ccattc	ccggg	gtct	cat	gaa	g	540
gtgg	agcggc	g	ggggg	gcaat	g	gggcat	ctgg	aaggag	ctct	tctg	c	gag	ct	600
gag	ttccg	cc	tctac	ctgag	g	caacg	aggag	cacac	ctgtg	tggag	aa	ctg	ctc	660
cgct	gtg	agt	ctgtg	ggg	cc	agccc	atagt	gatggg	cgt	ttg	agct	gg	t	720
aaga	agctg	g	ccctg	cgcgc	g	ctcct	cccag	gacga	agctg	aggact	gg	ct	ggg	780
cggg	aggccc	g	tgcag	aaggt	g	ccggc	ctcag	caggag	gatg	agtggg	tga	cgt	gcag	840
ccag	accagc	g	ctgag	gaacc	g	ccccg	aggcg	ccccg	aggct	gcct	ctct	cc	ctc	900
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ggggg	gcccat	g	ccttct	tcaa	g	aatcat	caacg	gccaa	ggctg	tcctg	aa	gct	gcagg	1200
aacg	ccgagg	g	aagcc	gcctt	g	gtggag	gggat	ctgg	tccga	aagtc	cctgg	atc	ctact	1260
gag	acagccg	g	aggagg	cgggt	g	gaccct	gggc	gggag	cctgg	atgaaa	actg	t	caggag	1320
ctg	aaat	ttt	ccacc	cggga	g	gaatg	gcttc	ctgct	gcag	t	ac	ctg	gtg	1380
gag	aaaggcc	g	ttgact	ccca	g	aggct	gcttc	tgcgc	agg	tg	cg	att	t	1440
cccc	agcctg	g	ccagc	ctcac	g	tccac	ctcct	gctgg	ttcct	gattt	aggct	cccc	ac	1500
ctgc	ctcccc	g	gcaaat	gccc	g	ccatc	cttcc	cctagg	gatg	aggcc	acaga	t	cagg	1560
cct	acagctt	g	ctgct	cctcc	g	ccagc	ccctgg	ctggg	gccag	tgcc	ctg	ctc	at	1620
ggcc	ctgctc	g	acccg	tccct	g	ctcct	gccac	ctccc	actga	tggg	cggcag	g	ctg	1680
cact	gcgctg	g	ctcagg	ggagt	g	cccag	cctgc	ttcatt	tttct	tctt	gctcta	ccg	t	1740
cttt	ccagagc	g	agggg	catgg	g	tttcc	ttcca	aatatt	tttctg	ctg	ctttt	at	aag	1800
cct	ttttttt	g	aattata	aaaa	g	atggg	ctcgt	gctaaaa	aaaaa	aaaaa	aaaaa	aaaaa	aaaaa	1859

xw86e11.x1 NCI\_CGAP\_Pan1 Homo sapiens cDNA clone IMAGE:2834924 3', mRNA sequence.

ttataagaaa	tttatttttt	cacagataca	gaacataaat	ccaagaaaaa	ttattattat	60
ttttcacaat	tatgactaaa	tcatgttatt	tctagttatt	tacaagtact	acaatgttct	120
atgcatttct	tcatcctaga	cattaataaa	acacatccct	ttggtcttag	atacttctct	180
ttggtctgtg	ttttctcctt	tctgaatttt	aatcttctgt	gatgtgagga	aatttaogtg	240
aacctttcac	atatctattt	ttttccttgt	gcacagttga	taatttcctc	ccttagattc	300
cctgagaaaa	gaaacacaaa	atattccttag	tggattatct	caggaaaggc	aaccagaggg	360
aagaggaata	ttggaccact	gaaaatctca	accaacgcta	atattaggag	cacacgtacc	420
atgaggaaga	gaagggatgg	ggaaaccaag	atggcagagt	tagagcaaca	aagttagtaa	480
catgagagtt	tcccagcaat	ttgagtaaga				510



Human 71 kDa 2'5' oligoadenylate synthetase (p69 2-5A synthetase) mRNA,  
complete cds.

cggcagccag	ctgagagcaa	tgggaaatgg	ggagtcccag	ctgtcctcgg	tgcttgetca	60
gaagctgggt	tgggttatcc	aggaatacct	gaagccctac	gaagaatgtc	agacactgat	120
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acgtgacatc	ctcgataaaa	ctggggataa	gctgaagttc	tgtctgttca	cgaagtgggt	360
gaaaaacaat	ttcgagatcc	agaagtcctt	tgatgggtcc	accatccagg	tggtcacaaa	420
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caaggattta	ccctcgctgt	ctccgtatgc	cctggagctg	cttacgggtgt	atgcctggga	720
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tgagcctccc	aagtggaaag	ctcccagggg	gctgagcttc	tctctgaaat	ccaaagtcct	1440
caacgaaagt	gtcagctttg	atgtgcttcc	tgcttttaat	gcactgggtc	agctgagttc	1500
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ctttgaagat	gagaccgtga	ggaagtttct	actgagccag	ttgcagaaaa	ccaggcctgt	1920
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cagtctaaaa	aaggaatcct	ctgtgtcttc	aaagcaaaagc	tctttacttt	ccccttgggt	2520
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tctcttggcc	aaagcaaaaag	actttttcct	tggcttttagc	cttaaagata	cttgaaggtc	2820
taggtgcttt	aacctcacat	acctcactt	aaacttttat	cactgttgca	tataaccagtt	2880
gtgatacaat	aaagaatgta	tctgg				2905

Homo sapiens cDNA FLJ20035 fis, clone COL00213.

aatctgtggt	ttttgctcaa	aactcagttc	atctggatgc	gttgaattat	agacagatgt	60
ctggccgtgc	tggaagaaga	ggtcaagacc	tgatgggaga	tgtatatttc	tttgatattc	120
oattccccc	aataggaaaa	ctcataaaat	ccaatgttcc	tgagctgaga	ggacacttcc	180
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ccagagtcac	ggacatgtta	aaactttact	tcctgttttc	tttgcagttc	ctggtgaaag	360
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attatcatga	accttcta	cttgtttttg	tgagttttct	tgtaaattggc	ctcttccatg	480
atctctgtca	gccaaccagg	aaaggctcaa	aacatttttc	tcaagacgtt	atggaaaagc	540
tagtattagt	attggcacat	ctctttggaa	gaagatattt	tccaccaaag	ttccaggatg	600
cacacttcga	gttttatcaa	tcaaagggtgt	tccttgatga	tctccctgag	gatttttagtg	660
atgcttttaga	tgaatataac	atgaaaatta	tggaggactt	taccactttc	ctacgaattg	720
tttccaaact	ggctgatatg	aatcaggaat	atcaactccc	attgtcaaaa	atcaaattca	780
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gagtagcaat	ttcaccattt	gtttgtctgt	ctgggaactt	tgatgatgat	ttgcttcgac	900
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aagccaaagt	aaatataata	ttatcagtaa	ctttatcccc	agtgtcagta	tttataaaat	1620
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ttagcataaa	tatgattttac	ataagtttagc	tatacagcta	ttgagatagt	actttctagt	1740
aaacttaaac	tactttttta	acatacattt	tgtgttgatt	taacaaaaat	atagagaatg	1800
atgtgtttta	ttgttaattgt	atataagtga	ctggaaaagc	acaaagaaat	aaagtgggtt	1860
cgatctgttt	acaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaa		1906

Homo sapiens monocarboxylate transporter 2 (hMCT2) mRNA, complete cds.

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ggaaacttct gctcagggtg gggagaggag tccatagatc agggaaactt atgtcttggg      60
gaaatggaag accatgtttc taaacacctg tcgccagggtt acttgaattt ccactagagg      120
agcagaaatg ccaccaatgc caagtgcctc acctgtgcat ccacctccag atggaggatg      180
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agctgtcacc gtattcttca aagaaattca gcaaatattc cacactacct acagtgaat      300
agcatggatt tcatccatta tgctggctgt tatgtacgca ggaggctctg taagtagtgt      360
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tggaatgggtg ttggcctcct ttagtagcag cgtgggtacag ctgtacctca ctatgggatt      480
cattacaggtt ttaggttttag ccttcaacct gcaaccgcc ttaaccataa ttggcaaata      540
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aagttcattg gctcctttca atcagtaacct ttttaatact tttggctgga aaggaagctt      660
cctgattttg ggaagtctac ttttgaatgc ctgtgtggct ggttccctca tgagaccct      720
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aagcccaaag aaaatcaaaa cgaagaaatc aacttgggaa aaagttaata agtatttaga      840
tttctccctt ttttaagcata gaggatttct gatatatctg tctggaaatg tcattatgtt      900
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tgctaatacc taaaaagtga ccctttatac atttcatttt ttatttgata ttaaagtatg      1980
agatagagtt gagagacaat taattatccc ctcttacaca caaacacaca tactcccaca      2040
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aaaa                                              2104

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Homo sapiens interferon-induced protein 44, mRNA (cDNA clone MGC:24007

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actacagaca	gtacaacaga	tcaagaagta	tggcagtgac	aactcgtttg	acacggttgc	120
acgaaaagat	cctgcaaaat	cattttggag	ggaagcggct	tagccttctc	tataagggtta	180
gtgtccatgg	attccgtaat	ggagttttgc	ttgacagatg	ttgtaatcaa	gggcctactc	240
taacagtgat	ttatagtga	gatcatatta	ttggagcata	tcggaagag	agttaccagg	300
aaggaaagta	tgcttccatc	atcctttttg	cacttcaaga	tactaaaatt	tcagaatgga	360
aactaggact	atgtacacca	gaaacactgt	tttgttgtga	tgttacaaaa	tataactccc	420
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ctcggaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			1714

601067066F1 NIH\_MGC\_10 Homo sapiens cDNA clone IMAGE:3453257 5', mRNA sequence.

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acccttaaat	tcaggaacac	tgccttggaa	gggtgtggac	ctttaaaaca	gaagcttctc	180
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gaaaaaaaca	aaaggggggc	ggcāaaāgac	cōcgāg			756

Human glutamate receptor subunit (GluH1) mRNA, complete cds.

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aatgcaaaaa	ggaatatgca	gcacattttt	gccttcttct	gcaccgggtt	cctaggcgcg	120
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zn32e02.s1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone  
IMAGE:549146 3', mRNA sequence.

cagtaataat	cagaacaata	tttattttta	tattttaanat	tcatagaaaa	gtgccttaca	60
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tgtaagtga	aagataaaat	ttgacctcag	aaactctgag	cattaaaaat	ccactattag	240
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gaggaagaaa	agaaaaggaa	ttacagcaat	actggttcct	tcctatagga	aggattagat	480
atgtttcctt	tgccaaatat	aaaaanaatt	aataatgggt	accaccagtg	aaccnaggt	540
attaggga	taatgggtcca	gcacncttg	ccagaaaggg	gtaagatggg	tatgggtgaa	600
c						601

Homo sapiens mRNA expressed in osteoblast, complete cds.

gcacgaggaa	gccacagatc	tcttaagaac	tttctgtctc	caaaccgtgg	ctgctcgata	60
aatcagacag	aacagttaat	cctcaattta	agcctgatct	aacccttaga	aacagatata	120
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Homo sapiens mRNA for C11ORF25 gene

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## Homo sapiens isopentenyl-diphosphate delta isomerase, mRNA (cDNA clone

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## Human prostaglandin endoperoxide synthase mRNA, complete cds.

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tcttccagaa	tgctgaactc	cttgttagcc	cttcagattg	ttaggagtgg	ttctcatttg	2040
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gtaacacagt	cattctagga	tgtggagcta	ctgatgaaat	ctgctagaaa	gttaggggggt	2160
tcttattttg	cattccagaa	tcttgacttt	ctgattgggtg	attcaaagtg	ttgtgttccc	2220
tggtgatga	tccagaacag	tggtctgtat	cccaaactctg	tcagcatctg	gctgtctaga	2280
atgtggattt	gattcatttt	cctgttcagt	gagatatcat	agagacggag	atcctaaggt	2340
ccaacaagaa	tgcatccct	gaatctgtgc	ctgcactgag	agggaagga	agtgggggtg	2400
tcttcttggg	acccccacta	agacctgggt	ctgaggatgt	agagagaaca	gggtgggctgt	2460
attcacgcca	ttggttgga	gctaccagag	ctctatcccc	atccaggtct	tgactcatgg	2520
cagctgtttc	tcatgaagct	aataaaattc	gccc			2554

602381868F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4499393 5', mRNA  
sequence.

tgtgaataga	caagaagctg	tactatatgt	gctctctcag	tggcaacaat	gaagttttgc	60
aattctagaa	cttggatttt	ttttttaaca	aaagtcccaa	aacaccaaaa	atgtaaacia	120
gataagagat	taatattgta	gtgatgtaat	ttaattaaag	ttatatattt	ggttaatttt	180
aacaactgaa	gtcttattgt	tgaaacttat	tttcaacaaa	actgtgcagt	taaatttgta	240
tacgtattca	catactgaaa	gatgaaccgt	taaaatagca	cttaatttgt	gtttcttcaa	300
tatgtcttga	tatactttgt	gcaattaata	ttacacatgt	aagttgtatg	gcagtttaca	360
gaactcaatg	acttgtcatg	aggttttcat	atgagctaca	cattgtgtac	attgatgggt	420
ttttattttt	acataaatcc	attctgtcat	tttcaacttt	atatataaat	ctccaatggt	480
atgggaaaca	atagattgac	acataatttt	taaaaattat	attgtaaaat	ttctctatgg	540
tgaataaagt	cttttaatat	aaaaaaaaaa	aaaaaaaaaa	gaaacaaaaa	aagaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aggggggggg	ggaaaaaaaa	accacggggg	gcacaaatct	660
atccgccacc	cacgtttaga	tcaaaggggc	cccaagagag	agacaaaaga	aagcgacggc	720
gacacaacaa	ccggggggcac	acgcgtacga	ctagggagag	cacaatcgcg	gtagtaggac	780
acacacaaaa	aacgagaaca	aacaggaccg	tgacaccacc	tgcgattgcc	taataaaaag	840
gcagaaacgg	cacgcacagc	gacgagcacg	cagcagaaac	accacacgca	gcaccatgta	900
c						901

Homo sapiens mRNA for quinolinate phosphoribosyl transferase, complete cds.

```

atggacgctg aaggcctggc gctgctgctg ccgcccgtca ccctggcagc cctgggtggac      60
agctggctcc gagaggactg cccagggctc aactacgcag ccttggtcag cggggcaggc      120
ccctcgcagg cggcgctgtg ggccaaatcc cctgggggtac tggcagggca gcctttcttc      180
gatgccatat ttacccaact caactgccaa gtctcctggt tcctccccga gggatcgaag      240
ctggtgccgg tggccagagt ggccgaggtc cggggccctg cccactgcct gctgctgggg      300
gaacgggtgg ccctcaacac gctggcccg cgcagtggca ttgccagtgc tgccgccgct      360
gcagtggagg ccgccagggg ggccggctgg actgggcacg tggcaggcac gaggaagacc      420
acgccaggct tccggctggt ggagaagtat gggctcctgg tgggcggggc cgcctcgcac      480
cgctacgacc tgggagggct ggtgatgttg aaggataacc atgtggtgcc ccccggtggc      540
gtggagaagg cggcgcgggc ggccagacag gcggctgact tcgctctgaa ggtggaagtg      600
gaatgcagca gcctgcagga ggtcgtccag gcagctgagg ctggcgccga ccttgctctg      660
ctggacaact tcaagccaga ggagctgcac cccacggcca ccgcgctgaa ggcccagttc      720
ccgagtgtgg ctgtggaagc cagtgggggc atcaccctgg acaacctccc ccagttctgc      780
gggcccgcaca tagacgtcat ctccatgggg atgctgaccc aggcgggtccc agcccttgat      840
ttctccctca agctgtttgc caaagagggt gctccagtgc ccaaaatcca ctag      894

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Homo sapiens mRNA for cytochrome P-450 HFLa, complete cds.

gtgatggatc	tcatcccaaa	cttggccgtg	gaaacctggc	ttctcctggc	tgtcagcctg	60
atactcctct	atctatatgg	aacctgtaca	catggacttt	ttaagaagct	tggaattcca	120
gggcccacac	ctctgccttt	tttgggaaat	gctttgtcct	tccgtaaggg	ctattggacg	180
tttgacatgg	aatgttataa	aaagtataga	aaagtctggg	gtattttatga	ctgtcaacag	240
cctatgctgg	ctatcacaga	tcccgcacatg	atcaaaacag	tgctagtga	agaatgttat	300
tctgtcttca	caaaccggag	gcctttcggg	ccagtgggat	ttatgaaaaa	tgccatctct	360
atagctgagg	atgaagaatg	gaagagaata	cgatcattgc	tgtctccaac	attcaccagc	420
ggaaaactca	aggagatggt	ccctatcatt	gccagtatg	gagatgtgtt	ggtgagaaat	480
ctgaggcggg	aagcagagac	aggcaagcct	gtcaccttga	aacacgtctt	tggggcctac	540
agcatggatg	tgatcactag	cacatcattt	ggagtgaaca	tgcactctct	caacaatcca	600
caagaccctt	ttgtggaaaa	caccaagaag	cttttaagat	ttaatccatt	agatccattc	660
gttctctcaa	taaaagtctt	tccattcctt	accccaattc	ttgaagcatt	aaatatcact	720
gtgtttccaa	gaaaagtatt	aagttttcta	acaaaatctg	taaaacagat	aaaagaaggt	780
cgctcacaag	agacacaaaa	gcaccgagtg	gatttccttc	agctgatgat	tgactctcag	840
aattcaaaaag	actctgagac	ccacaaaagct	ctgtctgata	tggagctcat	ggcccaatca	900
attatcttta	tttttgctgg	ctatgaaacc	acgagcagtg	ttctctcctt	cattatataat	960
gaactggcca	ctcaccttga	tgtccagcag	aaagtgcaga	aggaaattga	tacagtttta	1020
cccaataagg	caccaccctc	ctatgatact	gtgctacagt	tggagtatct	tgacatgggtg	1080
gtgaatgaaa	cactcagatt	attcccagtt	gctatgagac	ttgagagggt	ctgcaaaaaa	1140
gatgttgaaa	tcaatgggat	gtttattccc	aaaggggttg	tggtgatgat	tccaagctat	1200
gttcttcatc	atgaccctaa	gtactggaca	gagcctgaga	agttcctccc	tgaaagggtc	1260
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atttggtctc	tctgcttctc	ataggactat	ctccaccacc	cccagttagc	accattaact	1800
cctcctgagc	tctgataaca	taattaacat	ttctcaataa	tttcaaccac	aatcattaat	1860
aaaaatagga	attattttga	tggctctaac	agtacattt	atatcatgtg	ttatatctgt	1920
agtattctat	agtaagcttt	atattaagca	aatcaataaa	aacctcttta	c	1971



Human mRNA for endothelin converting enzyme, complete cds.

```

atgcggggcg tgtggccgcc cccggtgtcc gccctgctgt cggcgctggg gatgtcgacg      60
tacaagcggg ccacgctgga cgaggaggac ctggtggact cgctctccga gggcgacgca      120
taccccaacg gcctgcaggt gaacttccac agcccccgga gtggccagag gtgctgggct      180
gcacggaccc aggtggagaa gcggctggtg gtgttgggtg tacttctggc ggcaggactg      240
gtggcctgct tggcagcact gggcatccag taccagacaa gatccccctc tgtgtgcctg      300
agcgaagctt gtgtctcagt gaccagctcc atcttgagct ccatggaccc cacagtggac      360
ccctggccatg acttcttcag ctacgcctgt gggggctgga tcaaggccaa cccagtcctt      420
gatggccact cacgctgggg gaccttcagc aacctctggg aacacaacca agcaatcatc      480
aagcacctcc tcgaaaactc cacggccagc gtgagcgagg cagagagaaa ggcgcaagta      540
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caggacaccc tgcaggtggt caccgcccac taccgcacct cacccttctt ctctgtctat      720
gtcagtgccg attccaagaa ctccaacagc aacgtgatcc aggtggacca gtctggcctg      780
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cggccccaga tgcagcagat cttggacttt gagacggcac tggccaacat cadcatccca      960
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aagagcatag ccaccgagat catcctggag attaagaagg catttgagga aagcctgagc      1440
accctgaagt ggatggatga ggaaacccga aaatcagcca aggaaaaggc cgatgccatc      1500
tacaacatga taggataccc caacttcatc atggatccca aggagctgga caaagtgttt      1560
aatgactaca ctgcagttcc agacctctac tttgaaaatg ccatgcggtt tttcaacttc      1620
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ataggtgtcg tcgtgggcca tgagctgact catgcttttg atgatcaagg acgggagtat      1860
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cagaccgagt gcatggtaga gcagtacagc aactacagcg tgaacgggga gccggtgaac      1980
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ttggccacc                                     2409

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602386668F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4515521 5', mRNA

gcagaatgga	agcttagagg	aacttgctg	tgagcgctgg	tcttgtgttg	gtttgtgatg	60
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ccaatgaaga	tgtcagcatt	ttatgaaaaa	ccagaagtta	ttagatgaaa	gcagcgagtg	300
aatctttaaa	acagacttga	tcacgcacac	acaataagtc	tttctctccg	aaaccggaag	360
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tatgaacaaa	atttgcactc	taccagattt	gaacatctag	tgaggttcac	attcatacta	540
agttttcaac	attgtgttct	tttggcattc	attttttact	tttattaaag	gttcaaaacc	600
aaaaaagaaa	aaaag					615

## Homo sapiens mRNA for Rev-ErbAalpha protein (hRev gene)

ccgttgccctc	aacgtccaac	ccttctgcag	ggctgcagtc	cggccacccc	aagaccttgc	60
tgcagggtgc	ttcggatcct	gatcgtgagt	cgcggggtcc	actccccgcc	cttagccagt	120
gcccaggggg	caacagcggc	gatcgcaacc	tctagtttga	gtcaagggtcc	agtttgaatg	180
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accatccccc	actggctccc	tcacccaaga	cccggctcgc	tcctttggga	gcattccacc	420
cagcctgagt	gatgacggct	cccttcttc	ctcatcttcc	tcgtcgtcat	cctcctcctc	480
cttctataac	gggagccccc	ctgggagctc	acaagtggcc	atggaggaca	gcagccgagt	540
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gggctttttc	cgtcggagca	tccagcagaa	catccagtac	aaaagggtgc	tgaagaatga	720
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aaaaaaaaaa	aaaag					2355

Homo sapiens insulin induced protein 1 (INSIG1) gene, complete cds.

agctcacagt	ggggtcgagg	agacacagca	caggcttctg	aaaggtgccc	tgtccattag	60
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tgggtagctt	ttttttttcc	tattataaac	aaatcttcga	tgtgactgcy	atgatctacg	180
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ctgcagaggg	cccgtgagg	atggaccct	gtaggccgtc	cacacccacc	acgcgtgtca	420
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## Homo sapiens tumor rejection antigen (gp96) 1, mRNA (cDNA clone

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Homo sapiens tumor suppressor deleted in oral cancer-related 1, mRNA (cDNA clone MGC:3779 IMAGE:3659410), complete cds.

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ggaggctcga	gtgacatctt	cgcgcaccaa	tcgggagtga	gggagcattc	gtgcccgtc	420
gcccttccgg	ccagacctct	atctaccagg	ggcgtgcagc	ccgcttgcca	atcagagcgc	480
ggctgagcgg	ccccgcagcc	aacccccgag	gagcggccgg	ctggcgctccg	ccgcgcccag	540
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cttttgctaa	atatgccctt	tttatattaa	taaaagatga	tttggagttg	tgctctcaaa	1380
aaaaaaaaa	aaaaaaa					1397

Homo sapiens TNFR-related death receptor-6 (DR6) mRNA, complete cds.

atggggacct	ctccgagcag	cagcacccgc	ctcgccctct	gcagccgcat	cgcccgccga	60
gccacagcca	cgatgatcgc	gggctccctt	ctcctgcttg	gattcccttag	caccaccaca	120
gctcagccag	aacagaaggc	ctcgaatctc	attggcacat	accgccatgt	tgaccgtgcc	180
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gtgcttgtgg	tgattgtggt	gtgcagtatc	cggaaaagct	cgaggactct	gaaaaagggg	1140
ccccggcagg	atcccagtg	cattgtggaa	aaggcagggc	tgaagaaatc	catgactcca	1200
accagaacc	gggagaaatg	gatctactac	tgcaatggcc	atggtatcga	tatcctgaag	1260
cttgtagcag	cccaagtggg	aagccagtgg	aaagatatct	atcagtttct	ttgcaatgcc	1320
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gcagctctgc	agcactggac	catccggggc	cccaggcca	gcctcgccca	gctaattagc	1440
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gatgacatgc	tccactttct	aaatcctgag	gagctgcggg	tgattgaaga	gattccccag	1860
gctgaggaca	aactagaccg	gctattcgaa	attattggag	tcaagagcca	ggaagccagc	1920
cagaccctcc	tggactctgt	ttatagccat	cttctcgacc	tgctgtag		1968

601848574F1. NIH\_MGC\_55 Homo sapiens cDNA clone IMAGE:4079202 5', mRNA sequence.

acaatggtat	agatttcaca	acacaaaaag	gacattggtg	gatgttactg	cacattttta	60
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ttatgtaaaa	ttagtaaatga	atgatggcaa	cgagggcact	gttatcttcg	ttgttttcaa	180
tgatcattta	gcattcaatg	atggaacagc	tggtataaca	taagtgggtcg	gcatgaaata	240
tttgagatcg	aaacttctgt	gccttgaaca	gaacttatat	cttagattct	ctctcacatt	300
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tcttcttaag	aagtaaaaaac	tcagaatgta	ccatctgtgt	ttcctttcag	ttcattaaat	540
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gcaaaaatat	taactttaat	gaaccattgc	ttggacatga	tttcctatac	attaccattg	660
ggccgaatgt	gttggtcata	ctatcacgca	ctaaacctgg	gtgtttacac	tgggcaccgc	720
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Homo sapiens clone. PP1722 unknown mRNA.

gctgtgtggc	ccaggctttt	ctcaaaactcc	tgaggggcaag	cgatccctccc	acctcagcct	60
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acacgaaacc	atattttttt	catttcacaa	tgttttattca	catatatggt	attagtattc	180
taatgtagtg	atgcactcta	aattttgcatt	atattttocta	gaacatctga	acagagcata	240
ggaaattccc	tatttttgcca	ttatcagttc	taacaaaaaat	cttaaaagca	ctttatcatt	300
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tcagatgtct	gcaatgagta	aatttagcac	cattatcagg	aagctttctc	accaatgaca	480
acttcattgg	aagatttttaa	tgaaagtgtg	gcatactcta	gggaaaaaat	atgaatatatt	540
tagcatctat	gtattgaaaa	ttatgttgaa	taaatgtcag	actatTTTTT	acataacggt	600
gcttctgttt	aattttgtca	cgttcagagg	tggggggtag	gagatgtaag	cccttgacag	660
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tttttaaaat	gcagtgcctt	actttaaact	aaggggaact	ttgcgagggt	gaaaaccttt	2160
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Homo sapiens hypothetical protein FLJ11259, mRNA (cDNA clone MGC:8787. IMAGE:3925141), complete cds.

gcaaaatcaa	acctgctatt	tcagcactcc	tggttttaac	ttggtgtctt	tagtgcttgg	60
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gatggtcac	tctgcccgtt	cttgccgcagc	tgtcatcccc	atgattgtct	gtgcttcact	300
aatttccata	accaagctgg	agtgggaatcc	aagagaaaag	gattatgtat	atcacgtagt	360
gagtgcgac	tgtgaatgga	cagtggcctt	tggttttatt	ttctacttcc	taactttcat	420
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gacagacagg	gttttgaggc	caccctgatt	attgggatgc	atctgcagca	catccaggac	600
ttgaatttca	ttacgagttc	ctaatagttg	tattttctaaa	gatgtttcct	agagaatgta	660
cagccttatg	acactgtagt	gatgttttta	taattttcta	agtagatttt	tttatattaa	720
caaattcata	tacagaaaaa	ataaggtgtt	acaaaaaatg	gagagctctt	atttttgtac	780
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gtggcaaaga	gaagaaaggc	ccaagagcga	gacaagaaga	atggagaagg	gggcagccaa	1380
gaagaacttc	tgggttcagg	gtactgttta	tttgctcctt	ctcttcatgc	ctgtggctgg	1440
atgtcccaca	acactataag	aaatataagt	caagcccttt	gtgttaagca	agaactacag	1500
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ctggggacttc	gagaccagac	tgggaaacat	ggcaaaatcc	catctctaca	acaaaaatac	2160
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gagaatcacc	tgagcccagg	aggtggaggc	tgcagtgagc	catgccaatg	cactccagtc	2280
tgggcaacag	agtgagaccc	tgtctcaaaa	ataaataaat	aaataaatga	ataaagagaa	2340
tgctaatacca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2388

tq65c10.x1 NCI\_CGAP\_Lu19 Homo sapiens cDNA clone IMAGE:2213682 3' similar  
to SW:ENPL\_HUMAN P14625 ENDOPLASMIN PRECURSOR ;, mRNA sequence.

```

ttttttttcc tctactgcag cttcatcatc agattcttct ttctcttctt tggctgcttc      60
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gtttatgaac tgtgaatatt tttttgacga gatttttaat tgtatccaat tcaaggtaat      180
cagatgcttc ttcttttaag acaagggtaa ttgtcgttcc ccgtccataga gtgtttcctc      240
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tctcaccn c                                     1151

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Homo sapiens phosphoserine aminotransferase (PSA) mRNA, complete cds.

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ccttggctga ctcaccgccc tcgcccgcgc accatggacg ccccaggca ggtgggtcaac      60
tttgggcctg gtcccgccaa gctgccgcac tcagtgttgt tagagataca aaaggaatta      120
ttagactaca aaggagtggg cattagtgtt cttgaaatga gtcacagggtc atcagatttt      180
gccaagatta ttaacaatac agagaatctt gtgcgggaat tgctagctgt tccagacaac      240
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caggatatac tctgttcttg aacaacatac aaagtttaaa gtaac                                     1065

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Homo sapiens cDNA clone:ADBAPE04, 5'end, expressed in human adrenal gland..

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attatgtatt	gttttactct	gattaggtta	ctgtgatagg	catttattca	tattctttct	120
ataccactgt	cattaatata	ttaaaaagat	gtatgtgtta	gactatcgaa	agggccttat	180
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gccacacaaa	gcaaacagat	ctgcatcgat	cgcaatttct	tgtgaacacg	gattgcatgt	660
ccatatccct	ttgcaggatt	taaaatattt	aaaatggcct	gccttgagtg	cgatgagcca	720
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wd68f02.x1 NCI\_CGAP\_Lu24 Homo sapiens cDNA clone IMAGE:2336763 3', mRNA  
sequence.

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atgaaagagc	attactagag	gagtggggag	gcctaggcta	tgctctttac	tctgccattg			420
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aactagaggg	ctggggccagc	atgtttt						507

H.sapiens LU gene for Lutheran blood group glycoprotein.

agtctccgcc	gccgccgtga	acatggagcc	cccggacgca	ccggcccagg	cgcgcggggc	60
cccgcggctg	ctgttgctcg	cagtcctgct	ggcggcgcac	ccagatgccc	aggcggaggt	120
gcgcttgtct	gtacccccgc	tggtggaggt	gatgcgagga	aagtctgtca	ttctggactg	180
caccctacg	ggaaccacg	accattatat	gctggaatgg	ttccttaccg	accgctcggg	240
agctcgcccc	cgcctagcct	cggctgagat	gcagggtctt	gagctccagg	tcacaatgca	300
cgacacccgg	ggccgcagtc	ccccatacca	gctggactcc	cagggggcgcc	tggtgctggc	360
tgaggcccag	gtgggcgacg	agcgagacta	cgtgtgcgtg	gtgagggcag	gggcggcagg	420
cactgctgag	gccactgcgc	ggctcaacgt	gtttgcaaag	ccagaggcca	ctgaggtctc	480
ccccacaana	gggacactgt	ctgtgatgga	ggactctgcc	caggagatcg	ccacctgcaa	540
cagccggaac	gggaacccgg	cccccaagat	cacgtggtat	cgcaacgggc	agcgccctgga	600
ggtgcccgtg	gagatgaacc	cagagggcta	catgaccagc	cgcacggctc	gggaggcctc	660
gggcctgctc	tccctcacca	gcaccctcta	cctgcccgtc	cgcaaggatg	accgagacgc	720
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ccctgccacc	cccactgggc	gggtacgcga	gggtgacact	tccagctgct	tctgcccggg	900
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gctgaatgtg	aatctcgagg	ggaacttgac	cctggaggga	gtgacccggg	gccagagcgg	1020
gacctatggc	tgcaagtggt	aggattacga	cgcggcagat	gacgtgcagc	tctccaagac	1080
gctggagctg	cgcgtggcct	atctggaacc	cctggagctc	agcgagggga	aggtgctttc	1140
cttacctcta	aacagcagtg	cagtcgtgaa	ctgctccgtg	cacggcctgc	ccaccctgc	1200
cctacgtctg	accaaggact	ccactccctt	gggcgatggc	cccatgctgt	cgtcagtttc	1260
tatcaccttc	gattccaatg	gcacctacgt	atgtgaggcc	tccctgccc	cagtcgccgg	1320
cctcagccgc	accagaact	tcacgtctgt	ggccaaggcc	tcgccagagc	taaagacagc	1380
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caaagggggc	ccctgctgcc	gccagcggcg	ggagaagggg	gctccgcgcg	caggggagcc	1800
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atgccgcgcc	cgccttccc	tcttccctct	tccctctccc	tgcccagccc	tcccttccct	2040
cctctgccgg	caaggcaggg	acccacagtg	gctgcctgcc	tccgggaggg	aaggagaggg	2100
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cctccgcccc	accccatcat	ctgtggacac	tggagtctgg	aataaatgct	gtttgtcaca	2400
tc						2402

Homo sapiens mRNA for calmegin, complete cds.

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ggctatgttt	gggtcttctg	ttcatctcaa	ttaatgcaga	atztatggat	gatgatgttg	180
agacggaaga	ctttgaagaa	aattcagaag	aaattgatgt	taatgaaagt	gaactttcct	240
cagagattaa	atataagaca	cctcaaccta	taggagaagt	atattttgca	gaaacttttg	300
atagtgaag	gttggctgga	tgggtcttat	caaaagcaaa	gaaagatgac	atggatgagg	360
aaatttcaat	atacgatgga	agatgggaaa	ttgaagagtt	gaaagaaaac	caggtaacctg	420
gtgacagagg	actggtatta	aaatctagag	caaagcatca	tgcaatatct	gctgtattag	480
caaaaccatt	cattttttgct	gataaaccct	tgatagtcca	atatgaagta	aattttcaag	540
atggtattga	ttgtggagggt	gcatacatta	aactcctagc	agacactgat	gatttgattc	600
tggaaaactt	ttatgataaa	acatcctata	tcattatggt	tggaccagat	aaatgtggag	660
aagattataa	acttcatttt	atcttcagac	ataaacatcc	caaaactgga	gttttcgaag	720
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ctgaaaaac	tgatgactgg	aatgaagaca	cggatggaga	atgggaggca	cctcagattc	1140
ttaatccagc	atgtcggatt	gggtgtggtg	agtggaaacc	tcccatgata	gataacccaa	1200
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aagggcaccc	atggcttttg	ttgatattatc	ttgtgacagc	aggagtgcc	atagcattaa	1560
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tagaaggcca	agaagaaagt	aatcaatcaa	ataagtctgg	gtcagaggat	gagatgaaag	1860
aagcagatga	gagcacagga	tctggagatg	ggccgataaa	gtcagtacgc	aaaagaagag	1920
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gcaacattat	attcttttcag	acattttattt	tagtccttca	tttccgagga	aaaagaagca	2100
actttgaagt	tacctcatct	ttgaatttag	aataaaaagt	gcacattaca	tatcggatct	2160
aagagattaa	taccattaga	agttacacag	tttttagttgt	ttggagatag	ttttggtttg	2220
tacagaacaa	aataatatgt	agcagcttca	ttgctatttg	aaaaatcagt	tattggaatt	2280
tccacttaaa	tggctataca	acaatataac	tggtagttct	ataataaaaa	tgagcatatg	2340
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agttgtttgc	ttaaattata	gattccttta	aggacatgcc	ttgttcataa	aatcactgga	2520
ttatattgca	gcataattta	catttgaata	caaggataat	gggtttttatc	aaaacaaaat	2580
gatgtacaga	ttttttttca	agtttttata	gttgcttttat	gccagagtgg	tttaccocat	2640
tcacaaaatt	tcttatgcat	acattgctat	tgaaaataaa	atttaaatat	tttttcatcc	2700
tgaaaaaaa						2710

wx78h04.x1 NCI\_CGAP\_Ov38 Homo sapiens cDNA clone IMAGE:2549815 3', mRNA sequence.

```

agcaatttga atcattttctt gaaaaacaaa cacagacaaa caccaaacat ggagttggtg      60
cccggcgccg ggcataaggg cagcacccca cgggtggctg tgcggggggc cgctgggtgt      120
ggccggggcc tgtgtgcctg tgcaggggcc cagctcctcg gggactggcc cacgaccccc      180
cactcagcgg gctgagccaa tgcctggccg agagggggcc gcagccagca ggcttgggtg      240
gctgcccgcg cccgcagggg acatcgggga aatgggggca gagtgcggga cccacacgct      300
gcctgaggag tcttggcagg gtggacaggc ctgggggtct ctaccagcaa tgcaataaat      360
atgcaaatcc aagcacagaa agaccaagcg cagacccac gggcgcacga ggcccagccc      420
agttcctgcg ggcacgggca ccaccggctc ttcacagacc aggagt                      466

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## Human CD9 antigen mRNA, complete cds.

```

cgcgcccccc agtccccgcac ccgttcggcc caggctaagt tagccctcac catgccggtc      60
aaaggaggca ccaagtgcac caaataacctg ctgttcggat ttaacttcat cttctggctt      120
gccgggattg ctgtccttgc cattggacta tggctccgat tgcactctca gaccaagagc      180
atcttcgagc aagaaactaa taataataat tccagcttct acacaggagt ctatattctg      240
atcggagccg gcgcctcat gatgctggtg ggcttccttg gctgctgcgg ggctgtgcag      300
gagtcccagt gcatgctggg actgttcttc ggcttcctct tggatgatatt cgccattgaa      360
atagctgcgg ccatctgggg atattcccac aaggatgagg tgattaagga agtccaggag      420
ttttacaagg acacctacaa caagctgaaa accaaggatg agccccagcg ggaaacgctg      480
aaagccatcc actatgcgtt gaactgctgt ggtttggctg ggggcgtgga acagtttatc      540
tcagacatct gcccacaaga ggacgtactc gaaaccttca ccgtgaagtc ctgtcctgat      600
gccatcaaag aggtcttcga caataaattc cacatcatcg gcgcagtggg catcggcatt      660
gccgtggtca tgatatttgg catgatcttc agtatgatct tgtgctgtgc tatccgcagg      720
aaccgcgaga tggcttagag tcagcttaca tccctgagca ggaaagttta cccatgaaga      780
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gtttatattt ttcagttgtt tgtttttgct tgttatatta agcagaaatc ctgcaatgaa      1020
aggtactata tttgctagac tctagacaag atattgtaca taaaagaatt tttttgtctt      1080
taaatagata caaatgtcta tcaactttaa tcaagttgta acttatattg aagacaattt      1140
gatacataat aaaaaattat gacaatgaaa aaaaaaaaaa aaaaaaaaaa gg      1192

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Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,

gtagccttta	tttacttaaa	catttatttg	cttctaggaa	ataagcgctt	tcctaatttc	60
aagcaattat	aaaagaactg	ctgttttctt	ccacactcac	ttgccagagg	gtcgaattgg	120
aagtcacata	tatgtctatg	aacggaagtt	aaaaggga	ttcaacatga	agatgaaatt	180
ctgaactttc	ctagataaat	taacattgct	gggtggaaat	attcagatgc	tgcttaaata	240
cttcggtaaa	cactgggtaa	gattcatgga	acttagaaaa	aagctgtatg	aactgcttta	300
ccaaatatca	ctactgagga	aatgtataaa	ataccacata	gtataaaatt	acatgttaatt	360
ccaatgccag	atttttaaata	aaggacctta	agttttcctc	aagggggaag	tttaattgggt	420
cnttcccgnt	ntcanagggc	caaaaanttc	ccaaggaaac	caggtagnaa	gctcttnaaa	480
ggccgcaaaa	t					491

Homo sapiens 7-dehydrocholesterol reductase, mRNA (cDNA clone MGC:1760 IMAGE:3507516), complete cds.

gtggagcagc	gcgcgcaagc	gaggccaggg	gaagggtgggc	gcaggacttt	agccgggttga	60
gaaggatcaa	gcaggcatth	ggagcacagg	tgtctagaaa	cttttaaggg	gccgggttcaa	120
gaaggaaaag	ttcccttctg	ctgtgaaact	atctggcaag	aggctggagg	gcccaatggc	180
tgcaaaatcg	caaccaca	ttcccaaagc	caagagtcta	gatggcgta	ccaatgacag	240
aaccgcatct	caagggcagt	ggggccgtgc	ctgggaggtg	gactggtttt	cactggcgag	300
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ccagtacagc	tgcgccctga	ccggccctgt	ggtggacatc	gtcactggac	atgctcggct	420
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gtatcagatc	aacggcctgc	aagcctggct	cctcacgcac	ctgctctggg	ttgcaaacgc	660
tcctctctctg	tcctggttct	cgccaccat	catcttcgac	aactggatcc	cactgctgtg	720
gtgcgccaac	atccttggct	atgcctgtc	caccttcgcc	atggtcaagg	gctacttctt	780
ccccaccagc	gccagagact	gcaaattcac	aggcaatttc	ttttacaact	acatgatggg	840
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tgccggcgcc	cacctgctgc	cctaacttta	catcatctac	atggccatcc	tgctgaccca	1500
ccgtgcctc	cgggacgagc	accgtgcgc	cagcaagtac	ggccgggact	gggagcgcta	1560
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ttcatcttta	tattaaactt	cccctgttca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2580
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			2614

Homo sapiens squalene epoxidase (ERG1) mRNA, complete cds.

ctggtctgat	eggactttctc	gtcctgggac	acagtttact	ggagtctggc	eggctctccg	60
tgctcctctt	ggtacctcat	tttggggaga	accttaaacc	cactcgagca	gataatctcc	120
gccttgaccg	gtgccaccaa	agaagccttg	gaaccatgtg	gacttttctg	ggcattgcca	180
ctttcaccta	tttttataag	aagttcgggg	acttcatcac	tttgccaac	agggaggtcc	240
tggtgtgcgt	gctgggtgtc	ctctcgctgg	gcctgggtgct	ctcctaccgc	tgctcgccacc	300
gaaacggggg	tctcctcggg	cgccagcaga	gcggctccca	gttcgccctc	ttctcggata	360
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atatgtaaat	acatgcttta	atttgcaatt	taaaatgaag	gggttaaata	agttagacat	2100
ttaaaagaaa	tgattgttac	cataaattag	tgctaagtgc	gaggagaact	acagtttttc	2160
ttttgaattt	agtatttgag	atgagttggt	gggacatgc			2199

Homo sapiens keratin 23 (histone deacetylase inducible), transcript variant 1, mRNA (cDNA clone MGC:26158 IMAGE:4838347), complete cds.

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aggggggaaat cctgagcgca ggccaggggtt gtttgggttt gaggtgtgct gggatgaaag      60
gcaccctgga agtggaaggt aaatgagcaa tggaaaaact tcacggcaag attagaaaga      120
tacctgagcc caatacccgc ctgatgtcgt gggccacacc tccgggttac caggggaagg      180
gaggaagcaa actgtcatat tgatgtggct ctaaacaaca acagtgtgcg aaggcccagg      240
ggcacttttg gattgaccaa gaggaaacac aagttgcaca atgatacaat cttgttggtg      300
caattgtcag agaagggaac tcccacagca aaggccataa aaccatccag ggcagtctgg      360
ggcggctcag ttctgcggtg ccagggagtg gagcagagct cagccccgtc ccaaacacag      420
atgggaccat gaactccgga cacagcttca gccagacccc ctcggcctcc ttccatggcg      480
ccggaggttg ctggggccgg cccaggagct tccccagggc tcccaccgtc catggcgggtg      540
cgggggggagc ccgcatctcc ctgtccttca ccacgcggag ctgccacccc cctggaggggt      600
cttgggggttc tggaagaagc agccccctac taggcggaaa tgggaaggcc accatgcaga      660
atctcaacga ccgcctggcc tcctacgtgg agaaggttcg cgccctggag gaggccaaca      720
tgaagtggga aagccgcaac ctgaaatggc accagcagag agatcctggc agtaagaaag      780
attattcaca gtatgaggaa aacatcacac acctgcagga gcagatagtg gatggtaaga      840
tgaccaatgc tcagattatt cttctcattg acaatgccag gatggcagtg gatgacttca      900
acctcaagta tgaaaatgaa cactccttta agaaagactt ggaaattgaa gtcgagggcc      960
tccgaaggac cttagacaac ctgaccattg tcacaacaga cctagaacag gaggtggaag      1020
gaatgaggaa agagctcatt ctcatgaaga agcaccatga gcaggaaatg gagaagcatc      1080
atgtgccaaag tgacttcaat gtcaatgtga aggtggatac ggggtcccagg gaagatctga      1140
ttaaggtcct ggaggatatg agacaagaat atgagcttat aataaagaag aagcatcgag      1200
acttggaacac ttggtataaa gaacagtctg cagccatgtc ccaggaggca gccagtccag      1260
ccactgtgca gagcagacaa ggtgacatcc acgaactgaa gcgcacattc caggccctgg      1320
agattgacct gcagacacag tacagcacga aatctgcttt ggaaaacatg ttatccgaga      1380
cccagtctcg gtactcctgc aagctccagg acatgcaaga gatcatctcc cactatgagg      1440
aggaactgac gcagctacgc catgaactgg agcggcagaa caatgaatac caagtgtctg      1500
tgggcatcaa aacccacctg gagaaggaaa tcaccacgta ccgacggctc ctggagggag      1560
agagtgaagg gacacgggaa gaatcaaagt cgagcatgaa agtgtttgca actccaaaga      1620
tcaaggccat aaccaggag accatcaacg gaagattagt tctttgtcaa gtgaatgaaa      1680
tccaaaagca cgcagagac caatgaaagt ttccgcctgt tgtaaaatct attttcccc      1740
aaggaaagtc cttgcacaga caccagtggg tgagttctaa aagataccct tggaattatc      1800
agactcagaa acttttattt tttttttctg taactgtctc accagacttc tcataatgct      1860
cttaatatat tgcacttttc taatcaaagt gcgagtttat gagggtaaag ctctactttc      1920
ctactgcagc cttcagattc tcatcatttt gcactatatt tgtagccaat aaaactccgc      1980
actagcaaaa aaaaaaaaaa aa                                2002

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Homo sapiens translocon-associated protein gamma subunit mRNA, complete cds.

```

cctttgcccc cttggcgggc ggctctacgt tcctgtttct cgcctgcagc tccgccatgg      60
ctcctaaagg cagctccaaa cagcagtcctg aggaggacct gctcctgcag gatttcagcc      120
gcaatctctc ggccaagtcc tccgcgctct tcttcggaaa cgcgttcacg gtgtctgcca      180
tccccatctg gttatactgg cgaatatggc atatggatct tattcagctc gctgttttgt      240
atagtgtgat gaccctagta agcacatatt tggtagcctt tgcatacaag aatgtgaaat      300
ttgttctcaa gcacaaaagta gcacagaaga gggaggattgc tgtttccaaa gaagtgaactc      360
gaaaactttc tgaagctgat aatagaaaga tgtctcggaa ggagaaagat gaaagaatct      420
tgtggaagaa gaatgaagtt gctgattatg aagctacaac attttccatc ttctataaca      480
acactctgtt cctggctcgtg gtcattgttg cttccttctt catattgaag aacttcaacc      540
ccacagtga ctcacatattg tccataagtg cttcatcagg actcatcgcc ctctgtctta      600
ctggctccaa atagaccatg tcagcttcac cccctggctt tgtgtctatg ggtggcctgt      660
ggtatatgga aaagtgcagc ggtggtcagg gtgggagaca caagatgttt ttatagtcta      720
gagcctttaa aaacccagc agaattgta ttcagtattg tttattggct gttttttgac      780
agattgttga aattaaatga attgaaaggg aaactcagag tactaggacg tttattaaaa      840
ggaaaaaaat gtcttgcaat gtgctgtaat cacaagagga gaaaataact tgtttccttg      900
atctgtcaga ggtcacagta acctgggccc agctgttatt atttattata taatagtagt      960
aggaagttaa taactgggtc tctgtgttcc aagcacataa ttacaacttc ttttgaaccg      1020
taaatatcag aatgaatcct cttcccaggg gattgaacag aagcttaattg tttacaagtg      1080
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cagccaaggt agtaacctaa aaatagtggc caggcatatg agagttgtcc tacgaggtta      1260
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ctgccatgtt ggtttgactt actaagacac aggaatcatt gttttccttg accagggtct      1380
cacaccctgg aggaatgtta agtaagagaa agaacctctt tctgaatat tgacatgtaa      1440
aagaccaaaag taatttttct gaacttctgc aattctgaga actctccaag gaatttacag      1500
tgatttttagt gcttgtcagc atttttccat gaggacttct atacatttga ctcttttagt      1560
cacaggttcc cattgattgt gagcaagata tttatctctt tagcccttgg gatccagctc      1620
agagcaatct cttgcatttt tttaccogtg tatgtacaga tatcatttct tgtgtatgcc      1680
atgacttgaa aaagtttggg aagctcttta gcaatatcag ctaaaaggat atgaaatcac      1740
aggtgatagc agttgtcatt cagtaatttc ctacaagcag caccocaaag gaaatatagt      1800
cctaattctt actatccact tctaaattta atgtgaattt catacatgtt attagtgtgt      1860
ttctttataa ttttataaaa attattcctc gggagtttaa cttccacttc catgctatcg      1920
gatgtgttgg gctccatgca agaacttggg agaaaaacag gcaggaatgc atttgcataa      1980
tgaccagat catcattttc tgcaactgag aatttatatt catcattgct tctagaagtc      2040
tgcaattctt tacttttctt tgggtgcatta ttatctaggt gccatcactg gataatgtgg      2100
agtgactaga gaagtcatat atcactgtaa ggtacagtta gggtaacact tttagagttt      2160
attattttta aaaaactttt cttgaactcc tggccaacat ggtgaaaccc cgtctctact      2220
aaaaatacca aaattagcca ggcgtgatgg tgggtgcctg taatctcagc tacttgggag      2280
gctgaagcag gagaactgcc tgaaccagg aggcagaggt tgcagtgaag cgagatcggt      2340
ctactactgc ctgggtggca agggtagagc tccatctcaa aaaagaaaca aaaaaaccca      2400
aaaagttttc tttactgttg gttaaaaaaa aaagccagac catagtttga ctggtggcat      2460
ggaatttgtg tatcaataaa atgcatttgc ttatttgaca aaccatcagt gtccactatt      2520
tgttaccaga gttgggccac tatcttttaa aattgctggg gaaaacttgc cactagatgg      2580
agtgtgttat agatggggaa aaaattgcca ccattcttgg tataatacag tgtagcttag      2640
atgaggtggg gaaatagggg tatcagccga atattcctaa tatagtttct cttgaattaa      2700
taaactgaag atttgtagga aaatgagtga gcaaaatttg tttactgttg tgaatttttc      2760
ctacagcact gtttttaatc ttggtgtttt ccaactttct gtactaatag atacatttct      2820
gtgcataaga ttataaagca tatactcaca gttcagtagt tttcgtttaag gatttactgt      2880
gtgagtactt tactgtgagg aattgcagaa ctttttcccc tctactcttg tctaaaagtt      2940
ctgtgtggca cacagagatg cgacctactt aactgtactt agtaaaacca tgctgtagaa      3000
tttttgtctt aaaaagacca cataccagc acccatgaaa taaaagattc atctgtaaaa      3060
a

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Homo sapiens malic enzyme 1, NADP(+)-dependent, cytosolic, mRNA (cDNA clone MGC:39115 IMAGE:4870714), complete cds.

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gtcaccacag cagcatccgc cgctgcacc ggcggtgcgg cccgccccgg cctgaccccg      60
ccgcogaacc cggcgccagc catggagccc gaagcccccc gtccgcgcca caccatcag      120
cgcggtacc tgctgacacg gaaccctcac ctcaacaagg acttggcctt tacctggaa      180
gagagacagc aattgaacat tcatggattg ttgccacctt ccttcaacag tcaggagatc      240
caggttctta gagtagtaaa aaatttcgag catctgaact ctgactttga caggatctt      300
ctcttaatgg atctccaaga tagaaatgaa aaactctttt atagagtgtt gacatctgac      360
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agtttggtgt ttcggaagcc aagaggtctc tttattacta tccacgatcg agggcatatt      480
gcttcagttc tcaatgcatg gccagaagat gtcacaaagg ccatttgtgt gactgatgga      540
gagcgtatcc ttggcttggg agaccttggc tgtaatggaa tgggcatccc tgtgggtaaa      600
ttggctctat atacagcttg cggaggggatg aatcctcaag aatgtctgcc tgtcattctg      660
gatgtgggaa ccgaaaatga ggagttactt aaagatccac tctacattgg actacggcag      720
agaagatga gaggttctga atatgatgat tttttggacg aattcatgga ggcagtttct      780
tccaagtatg gcatgaattg cettattcag tttgaagatt ttgccaatgt gaatgcattt      840
cgtctcctga acaagtatcg aaaccagtat tgcacattca atgatgatat tcaaggaaaca      900
gcatctgttg cagttgcagg tctccttgca gctcttcgaa taaccaagaa caaactgtct      960
gatcaaaaca tactattcca aggagcttga gaggtgccc tagggattgc acacctgatt      1020
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gttgattcaa aaggattaat agttaaggga cgtgcttctt taacacaaga gaaagagaag      1140
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atggctgctt tcaatgaacg gcctattatt tttgctttga gtaatccaac tagcaaagca      1320
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aattcctatg tgttccctgg agttgctctt ggtgttgttg cgtgtggatt gaggcagatc      1500
acagataata ttttccctcac tactgctgag gttatagctc agcaagtgtc agataaacac      1560
ttggaagagg gtccgcttta tctccttttg aataccatta gagatgtttc tctgaaaatt      1620
gcagaaaaga ttgtgaaaga tgcataccaa gaaaagacag ccacagttta tctgaaccg      1680
caaaacaaag aagcatttgt ccgctcccag atgtatagta ctgattatga ccagattcta      1740
cctgattgtt attcttggcc tgaagaggtg cagaaaatac agaccaaagt tgaccagtag      1800
gataatagca aacatttcta actctattaa tgaggtcttt aaacctttca taatttttaa      1860
agggttgaat cttttataat gattcataag acacttagat taagatttta ctttaacagt      1920
ctaaaaattg atagaagaat atcgatataa attgggataa acatcacatg agacaaaaaa      1980
aaaaaaaaaa aa

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Homo sapiens livin inhibitor-of-apoptosis (LIVIN) mRNA, complete cds.

ccctgggata	ctccccctccc	aggggtgtctg	gtggcaggcc	tgtgcctatc	cctgctgtcc	60
ccaggggtggg	ccccgggggt	caggagctcc	agaagggcca	gctgggcata	ttctgagatt	120
ggccatcagc	ccccatttct	gctgcaaacc	tggtcagagc	cagtgttccc	tccatgggac	180
ctaaagacag	tgccaaagtgc	ctgcaccgtg	gaccacagcc	gagccactgg	gcagccgggtg	240
atgggtccac	gcaggagcgc	tgtggacccc	gctctctggg	cagccctgtc	ctaggcctgg	300
acacctgcag	agcctgggac	cacgtggatg	ggcagatcct	gggccagctg	cggcccctga	360
cagaggagga	agaggaggag	ggcgccgggg	ccaccttgtc	cagggggcct	gccttccccg	420
gcatgggctc	tgaggagtgtg	cgtctggcct	ccttctatga	ctggccgctg	actgctgagg	480
tgccacccga	gctgctggct	gctgccggct	tcttccacac	aggccatcag	gacaagggtga	540
ggtgcttctt	ctgctatggg	ggcctgcaga	gctggaagcg	cggggacgac	ccctggacgg	600
agcatgccaa	gtggttcccc	agctgtcagt	tctgtctccg	gtcaaaagga	agagactttg	660
tccacagtgt	gcaggagact	cactcccagc	tgttgggctc	ctgggaacctg	tgggaagaac	720
cggaagacgc	agcccctgtg	gccccctccg	tccctgcctc	tgggtaccct	gagctgcca	780
caccagggag	agagggtccag	tctgaaagtg	cccaggagcc	aggagccagg	gatgtggagg	840
cgcagctgcg	gcggctgcag	gaggagagga	cgtgcaaggt	gtgcctggac	cgcgccgtgt	900
ccatcgtctt	tgtgccgtgc	ggccacctgg	tctgtgctga	gtgtgcccc	ggcctgcagc	960
tgtgccccat	ctgcagagcc	cccgtccgca	gccgcgtgcg	caccttctctg	tcttaggcca	1020
ggtgccatgg	ccggccagggt	gggctgcaga	gtgggctccc	tgccccctctc	tgcctgttct	1080
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cctgattccc	cgaccaccgc	ccagggtgga	gaaggaggcc	cttgcttggc	gtgggggatg	1200
gcttaactgt	acctgtttgg	atgcttctga	atagaaataa	agtgggtttt	ccctggaggt	1260

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517  
IMAGE:3356428), complete cds.

```

ccgagggcggc ggcggcgact ccctctttcc ctccctcctc ctccgtccgc ccgtccgtcc      60
gcgcgtctgt ccgttcggcc cgggtccggcc cgaagcatgg ccggcgtcag cttcagcggc      120
caccgcctgg agctgctggc ggcttacgag gaggtgatcc gagaggagag cgcggccgac      180
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ctggagcaag agcaggagcc ggagccccac ctgctaacca atggcgagac caccagaag      1860
gaggggaccc aggccagtga ggggtacttc agtcaatcac aggaggagga gtttgcccaa      1920
tcggaagagc tctgtgccaa ggctccgcct cctgtgttct acaacaagcc tcagagatc      1980
gacatcacat gctgggatgc agaccagtt ccagaagagg aggagggtt cgagggtggt      2040
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atatcacttt gtattctctg tcagggtt cagatatttt gcacgaattt taaaacatgg      2520
caataaatgg ctctgtgggt ctggcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      2580
aaaaaaaaaa aaa                                     2593

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Homo sapiens MDS019 (MDS019) mRNA, complete cds.

ctgccagggg	gagggcccca	gagaaaacca	gaaagagggt	gagagactga	ggaagataaa	60
gcgtcccagg	gcctcctaca	ccagcgcttg	agcaggaagc	gggagggggc	atgactacga	120
ggccctggga	ggtcacttta	gggagggctg	tcctaaaacc	agaagcttgg	agcagaaagt	180
gaaaccctgg	tgctccagac	aaagatctta	gtcgggacta	gccggccaag	gatgaagcct	240
cacttcagaa	acacagtgga	gcgaatgtat	cgagacacat	tctcctacaa	ctttttataat	300
agacccatcc	tttctcgtcg	gaataccgtc	tggctgtgct	acgaagtga	aacaaagggg	360
ccctcaaggc	cccctttgga	cgcaaagatc	tttcgaggcc	agggtgtattc	cgaacttaag	420
taccacccag	agatgagatt	cttccactgg	ttcagcaagt	ggaggaagct	gcatcgtgac	480
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ggtccgcgtg	ccaccatgaa	gatcatgaat	tatgacgaat	ttcagcactg	ttggagcaag	720
ttcgtgtaca	gccaaagaga	gctatttgag	ccttggaata	atctgcctaa	atattatata	780
ttactgcaca	tcattgctggg	ggagattctc	agacactcga	tggatccacc	cacattcact	840
ttcaacttta	acaatgaacc	ttgggtcaga	ggacggcatg	agacttacct	gtgttatgag	900
gtggagcgca	tgcacaatga	cacctgggtc	ctgctgaacc	agcgcagggg	ctttctatgc	960
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tcctggagcc	cctgcttcag	ctgtgcccag	gaaatggcta	aattcatttc	aaaaaacaaa	1140
cacgtgagcc	tgtgcatctt	cactgcccgc	atctatgatg	atcaaggaag	atgtcaggag	1200
gggctgcgca	ccctggccga	ggctggggcc	aaaatttcaa	taatgacata	cagtgaattt	1260
aagcactgct	gggacacctt	tgtggaccac	cagggatgtc	ccttcagcc	ctgggatgga	1320
ctagatgagc	acagccaaga	cctgagtggg	aggctgcggg	ccattctcca	gaatcaggaa	1380
aactgaagga	tgggcctcag	tctctaagga	aggcagagac	ctgggttgag	cctcagaata	1440
aaagatcttc	ttccaagaaa	tgcaaacagg	ctgttcacca	ccatctccag	ctgatcacag	1500
acaccagcaa	agcaatgcac	tcctgaccaa	gtagattctt	ttaaaaatta	gagtgcatata	1560
ctttgaatca	aaaatttatt	tatatattcaa	gaataaagta	ctaagattgt	gctcaatata	1620
cagaaaagtt	tcaaacctac	taatccagcg	acaatttgaa	tcggttttgt	aggtagagga	1680
ataaaatgaa	atactaaatc	tttctgtaaa	aaaaaaa			1717

Human carnitine palmitoyltransferase I mRNA, nuclear gene encoding mitochondrial protein, complete cds.

ccgcgcaccc	atctgcccc	gtcctaggtg	ccgaccaacc	cccaggatgg	cggaagctca	60
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Homo sapiens prostate differentiation factor mRNA, complete cds.

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agcgtttaaa cttaaagcttg gagttatttc caccatgccc gggcaagaac tcaggacgct      60
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Homo sapiens amphiphysin II mRNA, complete cds.

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gtcccgga	gtccggcg					1998



602149641F1 NIH\_MGC\_81 Homo sapiens cDNA clone IMAGE:4290707 5', mRNA sequence.

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Human global transcription activator homologous sequence mRNA, complete cds.

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tb60a01.x1 NCI\_CGAP\_Br15 Homo sapiens cDNA clone IMAGE:2058696 3' similar  
to gb:M84739 CALRETICULIN PRECURSOR (HUMAN);, mRNA sequence.

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agatgagaac caggggtgag ggctgaagga gaatcaaaga taaaatacca gtttaaaaaa      120
aaaaaaaaa aaaaaaaagt cgtatcga                                     148
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tu04d02:x1 NCI\_CGAP\_Pr28 Homo sapiens cDNA clone IMAGE:2250051 3', mRNA sequence.

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acttaaaaca						550

Homo sapiens mRNA for KIAA0895 protein, partial cds.

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gtttgcaaac	ataaatccat	agtcttcatt	tcttttatatt	gtcacctttg	taaaagtgtt	4080
taaaatttgt	attgttttgt	ttgtatatct	ttgggcatct	tgtgtctagc	tataataaaa	4140
agaaacggtg	ccaag					4155

Homo sapiens NUCB2 protein (NUCB2) mRNA, complete cds.

caggtttgtg	cgctggacgc	aagcaccagg	cgcagcctcg	ctcgccgaga	cccgccgaga	60
acgtgttacg	agtcagtttt	tagtgaaaaa	acattgagct	aggagccaag	acccatctct	120
tcactatttt	ggtattgtgc	aagtcacctt	acctctctgg	atctcagttg	tctcatctgt	180
aaaaaggaga	taaaaattat	ttacctgcct	gaacatgagg	tggaggacca	tcctgctaca	240
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tactggactt	tattatgatg	aatatctcaa	gcaagtgatt	gatgtgctgg	aaacagataa	420
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agaagtagga	aggtaagaa	tgtaatttaa	agctaagttg	gattcccttc	aagatatagg	600
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gtttgaatcc	acagatttag	atatgcta	caaagcggca	acaagtgatc	tggaaacta	720
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agaatattta	aaaacattga	atgaagaaaa	gagaaaaaga	gaagagtcta	aatttgaaga	840
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tcacaggtc	atacagcaga	tggaacaaaa	aaaattacaa	ggaattcctc	catcagggcc	1440
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gaaa						

Homo sapiens glucose-6-phosphate dehydrogenase, mRNA (cDNA clone MGC:8534 IMAGE:2822640), complete cds.

cacttcgggg	ctgcgagcgc	ggagggcgac	gacgacgaag	cgcagacagc	gtcatggcag	60
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tggccaagaa	gaagatctac	cccaccatct	ggtggctgtt	ccgggatggc	cttctgccc	240
aaaacacctt	catcgtgggc	tatgcccggt	cccgcctcac	agtggctgac	atccgcaaac	300
agagtgaacc	cttcttcaag	gccaccccag	aggagaagct	caagctggag	gacttctttg	360
cccgaactc	ctatgtggct	ggccagtagc	atgatgcagc	ctcctaccag	cgctcaaca	420
gccacatgaa	tgccctccac	ctggggtcac	aggccaaccg	cctcttctac	ctggccttgc	480
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tgtccaacca	catctcctcc	ctgttccgtg	aggaccagat	ctaccgcctc	gaccactacc	660
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ccatctggaa	ccgggacaac	atcgccctgg	ttatcctcac	cttcaaggag	ccctttggca	780
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aaaaaaaaaa						2230



Homo sapiens zinc finger protein 165 (Zpf165) mRNA, complete cds.

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ctcagaggaa	tcccgganaa	aggtanaacc	agcttcgcgt	tgggaacgca	ggcgcgctta	180
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602326096F1 NIH\_MGC\_90 Homo sapiens cDNA clone IMAGE:4414319 5', Mrna

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atacgagaca	aaaaaaaaaa	aaaatgaaaa	aaaataaaaa	aaaaagagag	ggggacagat	780
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aggggtataa	atcggaaaaa	tgtgtgtaag	acaactgtgg	agaaaaac		887

Human prostaglandin endoperoxide synthase mRNA, complete cds.

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ccaacaagaa	tgcattccct	gaatctgtgc	ctgcactgag	agggcaagga	agtgggggtg	2400
tcttcttggg	acccccacta	agaccctggg	ctgaggatgt	agagagaaca	gggtgggctgt	2460
attcacgcca	ttggttggaa	gctaccagag	ctctatcccc	atccaggtct	tgactcatgg	2520
cagctgtttc	tcatgaagct	aataaaattc	gccc			2554

## Human mRNA for tyrosine hydroxylase type 3

tccacactga	gccatgccc	cccccgacgc	caccacgcca	caggccaagg	gcttccgcag	60
ggccgtgtct	gagctggacg	ccaagcaggc	agaggccatc	atgggcgccc	cggggccag	120
cctcacaggc	tctccgtggc	ctggaactgc	agccccagct	gcacccaca	ccccacccc	180
aaggtccccg	cggttcattg	ggcgcaggca	gagcctcatc	gaggacgccc	gcaaggagcg	240
ggaggcggcg	gtggcagcag	cggccgctgc	agtccccctc	gagcccgggg	acccccctgga	300
ggctgtggcc	tttgaggaga	aggaggggaa	ggccgtgcta	aacctgctct	tctccccgag	360
ggccaccaag	ccctcgggcg	tgtcccagag	tgtgaagggtg	tttgagacgt	ttgaagccaa	420
aatccaccat	ctagagaccc	ggccccgcca	gaggccgcga	gctggggggcc	cccacctgga	480
gtacttcgtg	cgccctgagg	tgcgcccagg	ggacctggcc	gccccgtctc	gtggtgtgcg	540
ccaggtgtca	gaggacgtgc	gcagccccgc	ggggcccaag	gtccccctgg	tcccaagaaa	600
agtgtcagag	ctggacaagt	gtcatcacct	ggtcaccaag	ttcgacctg	acctggactt	660
ggaccacccg	ggcttctcgg	accaggtgta	ccgccagcgc	aggaagctga	ttgctgagat	720
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ccccagctg	gaggacgtct	cccgtctcct	gaaggagcgc	acgggcttcc	agctgcggcc	960
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gggtcctggg	ggctgtgca	ctgcctccg	cccttccctg	acactgtctg	ctgccccaat	1860
caccgtcaca	ataaaagaaa	ctgtggtctc	t			1891

## Homo sapiens mRNA; cDNA DKFZp566A093 (from clone DKFZp566A093); complete

agtctggggt	ggactggcgg	ccgtggagtt	tgtgacatac	gaggtgacac	ccctcgagtc	60
acttcccttc	aactccagct	ggagcgccctg	cttggctttg	ggttcgttct	gcagccttcg	120
ccccgctcct	agcctcaggg	ccggactccg	gcgcagagcc	cagcccagcg	cagcctgcca	180
gcagccaccc	agccgcccag	ccgcccagcc	ccgcacgaaa	cccggccaga	gcttcctagc	240
agcccagagc	atgaacaccg	aatgtatcag	acccccatgg	aggtggcggg	ctaccagctg	300
cacaattttc	ccatctcctt	cttctcttct	ctgcttggag	gggatgtggg	ttccgttaag	360
ctggacaaca	gtgcctccgg	agccagcgtg	gtggccatag	acaacaagat	cgaacaggcc	420
atggatctgg	tgaagaatca	tctgatgtat	gctgtgagag	aggaggtgga	gatcctgaag	480
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aagaccctgg	caagcccaga	gcagctggag	aagttccagt	cctgtctgag	ccctgaagag	600
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ttggctcccc	aagcatcatc	tcacgaggag	aactttacac	ctagcacagc	tgggtgccaag	780
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cagaaagctt	gtctgtagcg	ggttttgtga	gagtgaacac	tttccacttt	ttgacacctt	1860
atcctgatgt	atggttccag	gatttggatt	ttgattttcc	aaatgtagct	tgaaatttca	1920
ataaactttg	ctctgttttt	ctaaaaataa	aaaaaaaaaa	aaaaaaaa		1968

Homo sapiens mRNA for Id-1H, complete cds.

ttcagccagt	cgccaagaat	catgaaagtc	gccagtggca	gcaccgccac	cgccgccgcg	60
ggccccacgt	gcgcgctgaa	ggccggcaag	acagcgagcg	gtgcggggcga	ggtgggtgcgc	120
tgtctgtctg	agcagagcgt	ggccatctcg	cgctgccggg	gcgccggggc	gcgcctgcct	180
gccctgctgg	acgagcagca	ggtaaactg	ctgctctacg	acatgaacgg	ctgttactca	240
cgcctcaagg	agctggtgcc	caccctgccc	cagaaccgca	aggtgagcaa	ggtggagatt	300
ctccagcacg	tcatcgacta	catcaggac	cttcagttgg	agctgaactc	ggaatccgaa	360
gttgaaccc	ccggggggccg	agggctgccg	gtccgggctc	cgctcagcac	cctcaacggc	420
gagatcagcg	ccctgacggc	cgaggcggca	tgcgtccctg	cggacgatcg	catcttgtgt	480
cgctgaaggc	cttccccagg	gaccggcgg				509

Homo sapiens mRNA for KIAA1254 protein, partial cds.

cattggcgcc	cgagctgtga	ccgccgccac	tggggcagcc	agcacaatcg	ggcggaggtg	60
gcgctgcccc	ttcagacctg	aaagatgtct	gaaaattcca	gtgacagtga	ttcatcttgt	120
ggttggactg	tcatcagtca	tgaggggtca	gatataaaaa	tggtgaattc	tgtgaccccc	180
actgacagct	gtgagcccg	cccagaatgt	tcatctttag	agcaagagga	gcttcaagca	240
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aagttagaag	aaattggaaa	tcaagaagtt	gtcattgttg	aagaagcaca	gagttcagaa	480
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tcgtggaaga	aacaataaaa	ctacaccatg	agg			6213



Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,  
mainly head.

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gtagccttta tttacttaaa catTTatttg cttctaggaa ataagcgctt tcctaatttc      60
aagcaattat aaaagaactg ctgttttctt ccacactcac ttgccagagg gtcgaattgg      120
aagtcacata tatgtctatg aacggaagtt aaaagggaaa ttcaacatga agatgaaatt      180
ctgaactttc ctagataaat taacattgct gggTgggaaat attcagatgc tgcttaaata      240
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ggccgcaaaa t                                                                491

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Homo sapiens mRNA; cDNA DKFZp564F1862 (from clone DKFZp564F1862); complete cds

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gaggcttctg aggtggtggc gccagcggct acctcctgcc tgtgaggagc tggctgagag      60
gggactgggc gccggcgggg aaggaggagc gctaggtcgg tgtacgaccg agattaggg      120
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ttatttaaag actttggcct ttttgggtcaa aaccaaaaca ctggatccaa gaagcgttt      660
gaaaatcatt tccagacacg ccaggatggg ggttccagta gacaaaggca tcatttccaa      720
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tcctcattat ctttgatgct aaacaatttt ctgtgaacta ttttgacaag tgcattgatt      1020
cactttaaac aatttgatat agctattaag tatatttaag ggtttttttt ttttgacaaa      1080
ttcaacattc aacgagtaga caaaatgcta attatttccc tgattaggaa agtttcttta      1140
aaaaacacgt aattttgcct agtgcttttt ctctacctgc ccttgggctc actaatatca      1200
ccagtattat taccaagaaa atattgagtt tacctgatta aactttaaaa gtttaattgta      1260
gatttaaat gtgtgaacct aatgattttt gcagtgaac ctttactaat tcaaagttgc      1320
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atttttaaat cctgagaaat gtgtgctttt gttttcggat agacttattt ctttagttct      1860
gcacttttcc acattatact ccatatgagt attaactcta tggatacata ttaaaacaag      1920
tgtctcatat aacattgtat gtgagagaaa tataaatatt tacaacctaa aaaaaaaaaa      1980
aaaaaaa

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Homo sapiens annexin A1, mRNA (cDNA clone MGC:5095 IMAGE:3459615), complete cds.

```

atttctcttt agttctttgc aagaaggtag agataaagac actttttcaa aaatggcaat      60
ggtatcagaa ttcttcaagc aggcctgggt tattgaaaat gaagagcagg aatatgttca      120
aactgtgaag tcatccaaag gtggtcccgg atcagcgggt agccctatc ctaccttcaa      180
tccatcctcg gatgtcgtg ccttgcataa ggccataatg gttaaagggt tggatgaagc      240
aaccatcatt gacattctaa ctaagcgaaa caatgcacag cgtcaacaga tcaaagcagc      300
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tcgtgctgcc atgaagggcc ttggaactga tgaagatact ctaattgaga ttttggcatc      480
aagaactaac aaagaaatca gagacattaa caggggtctac agagaggaac tgaagagaga      540
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gtaacaatac atgagaaaga tgtctatgta gctgaaaata aaatgacgtc acaagacaaa      1380
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa

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Homo sapiens peroxisomal D3,D2-enoyl-CoA isomerase, mRNA (cDNA clone MGC:3558 IMAGE:3608151), complete cds.

.gagccgcccc	agggatggcg	atggcgctact	tggccttggag	actggcgcg	cgttcgtgtc	60
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tgagagccag	tcagaaggac	tttgaaaatt	caatgaatca	agtgaaactc	ttgaaaaagg	180
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cttgtaacat	gccccaaacca	ggtgtatattg	acttgatcaa	caaggccaaa	tgggacgcat	300
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caactgggtt	tgaactctg	gtggtgacct	ccgaagatgg	catcacaaaag	atcatgttca	480
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ttaaagctgc	cagcaaggat	gactcaatca	tcactgtttt	aacaggaaat	ggtgactatt	600
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aagctaaaaa	taatgccgtt	ttactgaggg	aatttgtggg	ctgtttttata	gattttccta	720
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atgatatttc	actacagctc	tgatgaataa	aaagttttgt	aaaacaaaaa	aaaaaaaaaa	1380
aaa						1383

Homo sapiens kallikrein 8 (neuropsin/ovasin), transcript variant 1, mRNA  
(cDNA clone MGC:50513 IMAGE:5742016), complete cds.

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cgccccctcgt gatgtcaggg gcgcagtagc tccgcccacg tggagctcgg gcggtgtaga      60
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa     1377

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Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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gccccaacgc	cggggctttg	catggggccc	aggggaggcc	tgagcttggg	tttacactgt	2160
aataaagact	cctgtggaaa	aaaaaaaaaa				2190

Human mRNA for KIAA0188 gene, partial cds.

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ggctgcgaga	atgggggggat	gtatccctca	tgcagttggc	atccaggcag	ccctctgcag	4680
cagcacaccc	tgcaggcgga	gttttcagag	gatgcaattt	tggatccoga	attttgatgt	4740
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caatgataaa	aatcactgta	atacttcatt	gtgttgtact	ggatgcaaag	ctagaaaata	5280
ttgcaataaa	tgagaccgat	gaaagac				5307



Homo sapiens 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble), mRNA (cDNA clone IMAGE:2819708), partial cds.

cactcccttt	cctctgctgc	cgctcgggtca	cgcttgtgcc	cgaaggagga	aacagtgaca	60
gacctggaga	ctgcagttct	ctatcccttca	cacagctcct	tcacccatgcc	tggatcactt	120
cctttgaatg	cagaagcttg	ctggccaaaa	gatgtgggaa	ttgttgccct	tgagatctat	180
tttccttctc	aatatgttga	tcaagcagag	ttggaaaaat	atgatggtgt	agatgctgga	240
aagtatacca	ttggccttggg	ccaggccaag	atgggccttct	gcacagatag	agaagatatt	300
aactctcttt	gcattgactgt	gggttcagaat	cttatggaga	gaaataacct	ttcctatgat	360
tgcattgggc	ggctggaagt	tggaacagag	acaatcatcg	acaaatcaaa	gtctgtgaag	420
actaatttga	tgcagctgtt	tgaagagtct	gggaatacag	atatagaagg	aatcgacaca	480
actaatgcat	gctatggagg	cacagctgct	gtcttcaatg	ctgttaactg	gattgagtc	540
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cctttaattt	ttgaaacgagg	gcttcgtggg	acacatatgc	aacatgccta	tgatttttac	720
aagcctgata	tgctatctga	atatcctata	gtagatggaa	aactctccat	acagtgtac	780
ctcagtgcat	tagaccgctg	ctactctgtc	tactgcaaaa	agatccatgc	ccagtggcag	840
aaagagggaa	atgataaaga	ttttaccttg	aatgattttg	gcttcatgat	ctttcaactca	900
ccatattgta	aactgggttca	gaaatctcta	gctcggatgt	tgtggaatga	cttccttaaat	960
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gattcactct	ttgaagggaac	gtggtactta	gttaggggtg	atgaaaagca	cagaagaact	1500
tacgctcggc	gtcccactcc	aaatgatgac	actttggatg	aaggagttag	acttgtgcat	1560
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cttcataacct	ctttggccat	ttgtatgcat	gatgtttggt	ttttaaacat	ggtataatga	1980
atttgtgtact	tctgtcagaa	gaaagcagag	gtactaatct	ccaattaaaa	aattttttta	2040
catgtaaaaa	aaaaaaaaaa	aaaaaaaaaa				2068

Homo sapiens S100 calcium binding protein A14, mRNA (cDNA clone MGC:11012  
IMAGE:3640899), complete cds.

```

agatcatgag ccatcagctc ctctggggcc agctatagga caacagaact ctcaccaaag      60
gaccagacac agtgggcacc atgggacagt gtcggtcagc caacgcagag gatgctcagg      120
aattcagtga tgtggagagg gccattgaga ccctcatcaa gaactttcac cagtactccg      180
tggaggggtgg gaaggagacg ctgacccctt ctgagctacg ggacctggtc acccagcagc      240
tgcccatct catgccgagc aactgtggcc tggaagagaa aattgccaac ctgggcagct      300
gcaatgactc taaactggag ttcaggagtt tctgggagct gattggagaa gcggccaaga      360
gtgtgaagct ggagaggcct gtccgggggc actgagaact ccctctggaa ttcttggggg      420
gtgttgggga gagactgtgg gcctggaaat aaaacttgtc tcctctacaa aaaaaaaaaa      480
aaaaaaaaaa

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Homo sapiens cDNA clone:ADBALE09, 5'end, expressed in human adrenal gland.

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aagaaaagcc	ggcaccaaga	acttccattc	taatctagag	ctgaccagtt	tgagctgatt	120
ctctctttga	agagtccttc	ttgattgcag	tgacgtactg	gcatttctga	atggatgtaa	180
gtggagtatt	ttagtctaaa	ggcttttcaa	attacttgaa	ttttttttaa	aattgaggag	240
ctttatttct	atttaccctt	ccatttttgt	atatcaaatt	tccattgtca	ttaaaaactg	300
tatcttgaaa	ctttgtgaac	tgacttgctg	tatttgcact	ttgagctctt	gaaataaatg	360
tgatttttgt	gtgattaaaa	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	420
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aactcgctcg	ggccgaattg	ggcacgagcc	480
accaccacc	tttggcacag	cccctttgtt	tttacaccaa	taccaagaat	taagggggaa	540
gccttggcag	ttttcacgtt	taaaccagac	tcctttgccg	gaaccaacc	cgncaccctg	600
ctggcctccg	tc					612

as43b01.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319913 3',  
mRNA sequence.

tttaaaaaac	aaactgcaaa	atggtattta	tttacattaa	aacatgaatt	gcctgtatac	60
acacaaatat	aagaggaaca	atctgttatg	cacaataact	gtaatattta	gtacatgtta	120
tacacagcag	tatctgttaa	gtcagtggtt	tgagtgaaaa	cacagtacca	aaacattcct	180
gatacaaaat	aagttactca	ttcacatatt	ctaatacatac	aagacactta	atatttttaa	240
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taaataaact	aaattgactt	caagactatt	tataaatagc	ccactaaaat	atgattgaag	420
acattccttc	atttttattaa	ggtgtagcta	tatactagag	aatatgctca	actactgcct	480
ccaaatccaa	cactgtcatt	ctaattgcaa	atagaattta	ttaaattcca	cttcaggaca	540
tgagatgagc	tgccctgccct	attttgtcaa	tggttccaaa	gcattaacgg	attaagagac	600
tgc						603

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517  
IMAGE:3356428), complete cds.

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aaaaaaaaa	aaa					2593

Homo sapiens potentially prenylated protein tyrosine phosphatase hPRL-3  
mRNA, complete cds.

aagagttggg	ttttcttttt	taattatcca	aacagtgggc	agcttcctcc	cccacaccca	60
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Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA, complete cds.

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aaaaaaaaa	aaaaaaaaa	aaaaaaaccg	tcgaaaagcg	gccgccaccg	cgtgga	1856

Human channel-like integral membrane protein (CHIP28) mRNA, complete cds.

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gcagtggagg	gggcaagctt					1340



Homo sapiens STRA6 isoform 1 mRNA, complete cds, alternatively spliced.

agtcccagac	gggctttttcc	cagagagcta	aaagagaagg	gccagagaat	gtcgtcccag	60
ccagcagga	accagacctc	ccccggggcc	acagaggact	actcctatgg	cagctgggtac	120
atcgatgagc	cccagggggg	cgaggagctc	cagccagagg	gggaagtggc	ctcctgccac	180
accagcatac	cacccggcct	gtaccacgcc	tgcctggcct	cgctgtcaat	ccttgtgctg	240
ctgctcctgg	ccatgctggt	gaggcgccgc	cagctctggc	ctgactgtgt	gcgtggcagg	300
cccggcctgc	ccagccctgt	ggattttcttg	gctggggaca	ggccccgggc	agtgcctgct	360
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			2732

## Homo sapiens solute carrier family 7 (cationic amino acid transporter

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601440558F1 NIH\_MGC\_72 Homo sapiens cDNA clone IMAGE:3925214 5', mRNA sequence.

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## Human DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF

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nac79g07.x1 NCI\_CGAP\_Brn23 Homo sapiens cDNA clone IMAGE:3440820 3', mRNA sequence.

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Homo sapiens hypothetical protein MGC11256, mRNA (cDNA clone MGC:60219 IMAGE:6091291), complete cds.

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Homo sapiens cDNA clone IMAGE:3952627, partial cds.

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gaccccgcca	aaaaaaaaaa	aa				1222



PT1.1\_07\_C06.r tumor1 Homo sapiens cDNA 5', mRNA sequence.

cngggcntgc	aggaattctg	gnacgagtct	gggtcentgg	tttctctcca	tactcccttc	60
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tttctggctg	tctctatggt	cctcttctct	tatcctnaac	tttctgtcca	ttcgggcctc	240
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ntnccgmcatt	tnaaggaaaa	nttcctnttt	tnggccagga	ttggggaaat	tng	653

Homo sapiens cDNA FLJ12940 fis, clone NT2RP2005038, weakly similar to DNA  
NUCLEOTIDYLEXOTRANSFERASE (EC 2.7.7.31).

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cgaggatttc	ccagaccact	catcacatta	aaaaatattt	tg		2562

np60h03.s1 NCI\_CGAP\_Br2 Homo sapiens cDNA clone IMAGE:1130741 3', mRNA  
sequence.

atggtgttcc	ctgagcgggtt	gctgcgggtg	atggatactc	ttctgatact	ggctcttcgt	60
gctataatth	cttttctcac	caagagcagg	tgccctttca	gaagggaatg	ggagtggagg	120
gaggtcaca	gaaacacctc	ggcactgggg	gaaacgtggc	ctagcctctg	gcgacggcga	180
gcagcggccg	gaagcgacgg	gggctgcggg	ccggcgcggg	ttcagaggct	tctttttccg	240
cggacggaga	cactgtacag	cacaacctcg	ggaaaacgcc	aacgccgacg	ccttctccaa	300
caaaagatgg	cctcggactc	aagagtgcgg	ctccagggca	atgcagcccc	aacctaaaga	360
tttagaggcc	tcccgtttcg	ctggccccc	gagccgcca	ccgggactgc	acttccccac	420
cgataaaagg	tggtttccag	ggtacctccc	tcagatggcg	gcggcggtc	ccgacggctt	480
actcaccagc	atccttcgcg	ggcgggggct	ctcggcaagg	cggcctcgtg	ccgaatcc	538

Homo sapiens ALL1-fused gene from chromosome 1q, mRNA (cDNA clone IMAGE:2823316).

ggaagctatg	agggaccctg	tgagtagcca	gtacagttcc	tttcttttct	ggaggatgcc	60
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caaggtcaaa	gacagcagcg	ttggcaaaat	gatcgggcaa	gcaactgcag	cagaccagga	180
gaaaaaccct	gaaggtgatg	gcctccttga	gtacagcacc	ttcaacttct	ggagagctcc	240
cattgccagc	atccactcct	tcgaactgga	cttgctctaa	ggccaagact	tctctctccc	300
atcaccttgc	cctcattgtc	ttccctctca	agccccctcc	tttccactcc	tttcccattt	360
taatcttggt	ctctccctac	tgtgttggtg	gtgctgatga	atctgccaga	gttgagttct	420
atgtatttat	ttatctatct	gtctactcca	tttctctcaa	aagccctcaa	gtcacaaagt	480
aaatgggttca	agcaatggag	tactgggtca	cagggattcc	tcctttcccc	cccaaattat	540
aactccagaa	actaggcctg	actggggaca	cctgagagta	gtatagtagt	gcaaaatgga	600
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ccccaatcct	tccaaaaata	ttgatggtga	tttgtgctac	catttactcg	tttatttaaat	1260
aaagacattc	aatcccagga	aaaaaaaaaa	aaaaaaaaaa	aa		1302

Human mRNA for acetyl-coenzyme A transporter, complete cds.

gaattcgcag	cgagagctgg	aggtgttggg	tccggagacc	agccattcga	tcccgcgcga	60
ggtaggagct	ggtttccatc	ctggcaccac	ggcacacacc	tccagcctcg	agcccggcgc	120
tgctgcccg	gggtctcctt	caggtctctt	gacgccgttc	cagggggcac	ctatccaggc	180
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Homo sapiens SDF2L1 mRNA for SDF2 like protein 1, complete cds.

gctggagcgg	ggccggggcg	atgtggagcg	cgggccggcg	cggggctgcc	tggccggtgc	60
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ccaacacgca	caatacgtgg	aaggccatgg	aaggcatctt	catcaagcct	agtgtggagc	660
cctctgcagg	tcacgatgaa	ctctgagtgt	gtggatggat	gggtggatgg	aggggtggcag	720
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Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

ccccgggagga	ggaggcgggcg	agaatggcag	cggcgtcgtg	ggcgcggcgg	agatgagcgc	60
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gcacttcggg	acccgccgct	ggaggcgccg	tgaggcgttg	gtgtctcctg	gatgctacta	2100
gccccaacgc	cggggccttg	catggggccc	aggggaggcc	tgagcttgga	tttacactgt	2160
aataaagact	cctgtggaaa	aaaaaaaaaa				2190

Homo sapiens cDNA: FLJ22209 fis, clone HRC01496.

cgatgatgag	gctgaagaaa	aggaagacaa	agaagaagaa	aaagaaaaag	aagagaaaga	60
gtcgggaagac	aaacctgaaa	ttgaagatgt	tggttctgat	gaagaagaag	aaaagaaacc	120
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ctattttatgt	atggagcagc	aagactgaaa	ctgttgagga	gcccatggag	gaagaagaag	2040
cagccaaaga	agagaaagaa	gaatctgatg	atgaagctgc	agtagaggaa	aaaaaaaaaa	2100



Homo sapiens UDP-N-acetylglucosamine-2-epimerase mRNA, complete cds.

cggcgtcttg	aactctat	tagaacctct	caaaacgaaa	caagcaaata	atggagaaga	60
atggaaataa	ccgaaagctg	cgggtttgtg	ttgctacttg	taaccgtgca	gattatttcta	120
aacttgcccc	gatcatgttt	ggcattaaaa	ccgaacctga	gttctttgaa	cttgatgttg	180
tggtagcttg	ctctcacctg	atagatgact	atggaaatac	atatcgaatg	attgaacaag	240
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tggtaggtgc	agtaggcctg	gccctagtga	agctgccaga	tgtccttaata	cgctgaagc	360
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ttgaccagtt	tatacagttg	gttgcccatg	ctggctgtat	gattgggaac	agcagctgtg	960
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gaatgtttca	cttttgtctc	ctcttccaga	gtcaccttcc	ccactcta		2388

Homo sapiens carcinoembryonic antigen 2a (CGM2) mRNA, complete cds.

gccatgggtt	ccccttcagc	ctgtccatac	agagtgtgca	ttccctggca	ggggctcctg	60
ctcacagcct	cgctttttaac	cttctggaac	ctgccaaaca	gtgccagac	caatattgat	120
ggtgtgccgt	tcaatgtcgc	agaaggggaag	gaggtccttc	tagtagtcca	taatgagtcc	180
cagaatcttt	atggctacaa	ctggtacaaa	gggcaaagg	tgcatgccaa	ctatcgaatt	240
ataggatatg	taaaaaatat	aagtcaagaa	aatgccccag	ggcccgca	caacggtcga	300
gagacaatat	acccaatgg	aaccctgctg	atccagaacg	tcaccacaa	tgacgcagga	360
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tacgtattct	cggagccacc	caagccctcc	atcaccagca	acaacttcaa	tccggtggag	480
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tgggtaaaca	atcagagcct	cctggtcagt	cccaggctgc	tgctctccac	tgacaacagg	600
accctcgttc	tactcagcgc	cacaaagaat	gacataggac	cctatgaatg	tgaaatacag	660
aaccagtag	gtgccagccg	cagtgaccca	gtcaccctga	atgtctgcta	tgagtcagta	720
caagcaagtt	cacctgacct	ctcagctggg	accgctgtca	gcatcatgat	tggagtactg	780
gctgggatgg	ctctgatata	gcag				804

yh42a11.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:132380 5',  
mRNA sequence.

ggttttttaca	agagtaacac	atttaaattt	acagaggtaa	gaatttcctt	ggagaaatag	60
gtgctgggtga	taataggagt	atctttcttt	tccatatcaa	cataattata	ataaataact	120
cacagatttta	aaggcttatt	ttgtgccagg	cattctgctg	agtgcctttac	atacatgtct	180
catgtaatcc	tccaacacgc	tctgcaggga	caggagttaa	tgattatctt	gattttatag	240
gaataggtaa	tgtaatgctc	agagaggggt	aaacatctgg	gttaggtcac	acaggctaata	300
ccaataactta	ggttttaagg	ttttgaggac	tgggggtgcn	gtgggctcca	cggcctgtaa	360
tccccnggca	ctttggggga	ggcntaggcc	gggmccgggtc	cccgggggtcn	gggggtccng	420
gcccctccgg						430

Homo sapiens immediate early response 3, transcript variant short, mRNA

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ggccccgacc	ccggccccct	ccaccatccc	gggaccccg	cggggctccg	gtcctgagat	120
cttcaccttc	gacctctccc	cggagcccg	agcgccccct	gccgggccc	ccagcgccctc	180
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gccagtcgag	gaaccgaacc	cagccaaaag	gcttctcttt	ctgctgctca	ccatcgtctt	300
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taacgccgca	tccctggcgc	ccaccctgt	gtcccccgct	ctcgagccct	ttaatctgac	420
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gggggttggtg	ggctgtcacg	gagcgactgt	cgagatcgcc	tagtatgttc	tgtgaacaca	1200
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7f03b12.x1 NCI\_CGAP\_CLL1 Homo sapiens cDNA clone IMAGE:3293567 3', mRNA sequence.

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cagaagattg	gaacaaaaag	ataggagatg	gacacctgng	ggactgctcc	agcacgaagg	480
gaagcgatga	gcatcacaca	gcag				504

human full-length cDNA 3-PRIME end of clone CS0DA009YG15 of NEUROBLASTOMA  
of Homo sapiens (human)

tttttttttt	atttytttaw	cacttccaat	aaactagcat	aagttttatt	acaacatata	60
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atttctaagg	tcccagtcct	gcttgtactt	gacagtyacc	ctcatctaag	caacattaag	240
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acgtgagacc	tctctgaaga	gccaaaaaca	agtggctgtc	tcagtgatmc	atctattcat	960
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gccatgtcca	gttcagactg	tcggctatca	ggygtcttct	tgtgcactcy	tgaggtctgt	1080
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cccagcatac	gkccmcmcaw	tcggcastgc	ggctttcccg	gwtwctttct	gcctkaacca	1200
g						1201

602288121F1 NIH\_MGC\_97 Homo sapiens cDNA clone IMAGE:4373861 5', mRNA sequence.

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Homo sapiens organic anion transporter polypeptide-related protein 1 (OATPRP1) mRNA, complete cds.

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tgggtgtcgt	gaggacaaac	tccgcagggg	ctgtgaatcc	caactggagg	gcggcggggc	2640
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gttatttaag	cctgcgaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2760
aaa						2763

Homo sapiens cDNA: FLJ21243 fis, clone COL01164.

acaagaatga	atgaatgtct	ttgtcttaaa	ttttgccc	gtgttaaaag	atgtaattct	60
cagaatggga	gagaaatgac	tacctttgtt	cctactcttt	tatataatta	tccttttagg	120
gaaagacttg	gtcaactcta	atatatctag	aaggaagact	atatctgggtg	tagactaata	180
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aaagctagcc	aggaatgagc	ctaccacatt	atgtgagaat	atcaaacctc	aggcctgggg	300
ggttgagggg	aagaagatta	ccagaagtgc	aggaaagaga	agtttgagga	acacccttgg	360
cttagcaaca	tgtgataatg	caaagctgtt	ataacctgtt	aatcctacgt	actatgtgtt	420
ctgtaccttt	acatgttttt	aaatttaaga	tagttttgtaa	gaactgtaca	aaaaaatgct	480
tctggagatt	tctttggcag	aaatgccttt	catctataat	ttcatggaga	actgctttta	540
ttagcctagg	tgaaaagtag	tcctagcagt	gtaaatatgt	ataattagag	ttttctaatt	600
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tagtaattat	tttatggaaa	tgttagcaat	tctgtaccaa	ctttgaataa	aatgaaaaat	1860
ttaaaaaaaa	aaaaaaaaaa					1880



ab38f03.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone  
 IMAGE:843101 3' similar to contains Alu repetitive element;; mRNA sequence.

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ggtttcacca	tgttggccag	gctgatctcg	aactcctgac	ctcaggtgat	tcgcccgcct	240
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ctttttgaag	tacagtacta	ataaaactaag	gactacctag	agatcacact	tttagatatt	360
atctatttta	acatagatta	aaaatactgt	ttatatgaaa	attaagctta	aatacacgta	420
taggtaataa	ttattttgcc	catatacaag	taatgtaaac	agag		464

Homo sapiens KPL1 (KPL1) mRNA, complete cds.

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cccttccagt	ctcttcccc	tttctatccc	aatcaccaat	agaaatgcta	acatccctgc	1800
ctggtagcca	ga					1812

Homo sapiens carboxypeptidase, vitellogenic-like, transcript variant 2,  
mRNA (cDNA clone MGC:10029 IMAGE:3888647), complete cds.

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tcacccctta cattgaagct gggaagatcc aaaaagggaag agaattgagt ttggtcggcc      360
ctttccaggg actgaacatg aagagttatg ccggcttcct caccgtgaat aagacttaca      420
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cgctctccat gctttacatt gacaatccag tgggcacagg cttcagtttt actgatgata      660
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa

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Homo sapiens teratocarcinoma-derived growth factor 1, mRNA (cDNA clone MGC:24110 IMAGE:4615416), complete cds.

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aaaaaaaa						1748

Homo sapiens lipase mRNA, complete cds.

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Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog, mRNA  
(cDNA clone MGC:11074 IMAGE:3688670), complete cds.

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aaaaaaaaaa aaaa                                     1814

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Homo sapiens endoplasmic reticulum lumenal Ca<sup>2+</sup> binding protein grp78 mRNA,  
complete cds.

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cgccaaagcaa	ccaaagacgc	tggaaactatt	gctggcctaa	atggttatgag	gatcatcaac	600
gagcctacgg	cagctgctat	tgccttatggc	ctggataaga	gggaggggga	gaagaacatc	660
ctggtgtttg	acctgggtgg	cggaaaccttc	gatgtgtctc	ttctcaccat	tgacaatggt	720
gtcttcgaag	ttgtggccac	taatggagat	actcatctgg	gtggagaaga	ctttgaccag	780
cgtgtcatgg	aacacttcat	caaaactgtac	aaaaagaaga	cgggcaaaga	tgtcaggaaa	840
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tctcagcatc	aagcaagaat	tgaatttgag	tccttctatg	aaggagaaga	cttttctgag	960
acctgactc	gggccaaatt	tgaagagctc	aacatggatc	tgttccgggtc	tactatgaag	1020
cccgtccaga	aagtgttggg	agattctgat	ttgaagaagt	ctgatattga	tgaaattggt	1080
cttgttgggtg	gctcgactcg	aattccaaag	attcagcaac	tggttaaaga	gttcttcaat	1140
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aagctggggag	gtaaactttc	ctctgaagat	aaggagacca	tggaaaaagc	tgtagaagaa	1800
aagattgaat	ggctggaaag	ccaccaagat	gctgacattg	aagacttcaa	agctaagaag	1860
aagggaactgg	aagaaattgt	tcaaccaatt	atcagcaaac	tctatggaag	tgccaggccct	1920
cccccaactg	gtgaagagga	tacagcagaa	aaagatgagt	tgtag		1965

Homo sapiens S100 calcium binding protein A2, mRNA (cDNA clone MGC:3847 IMAGE:3659591), complete cds.

ctcccctcac	cccgggccag	gatgcccagt	ccccacgaca	cctcccactt	cccactgtgg	60
cctgggtggg	ctcaggggct	gcccttgacc	tggcctagag	ccctcccca	gctgggtggg	120
gagctggcac	tctctgggag	ggagggggct	gggaggggaat	gagtgggaat	ggcaagaggc	180
caggggtttg	tgggatcagg	ttgaggcagg	tttggtttcc	ttaaaatgcc	aagttggggg	240
ccagtggggc	ccacatataa	atcctcaccc	tgggagcctg	gctgccttgc	tctccttcct	300
gggtctgtct	ctgccacctg	gtctgccaca	gatccatgat	gtgcagttct	ctggagcagg	360
cgctggctgt	gctggtcact	accttcaca	agtactcctg	ccaagagggc	gacaagttca	420
agctgagtaa	gggggaaatg	aaggaacttc	tgcacaagga	gctgcccagc	tttgtggggg	480
agaaagtgga	tgaggagggg	ctgaagaagc	tgatgggcag	cctggatgag	aacagtgacc	540
agcaggtgga	cttcaggag	tatgctgttt	tcttggcact	catcactgtc	atgtgcaatg	600
acttcttcca	gggctgcca	gaccgacct	gaagcagaac	tcttgacttc	ctgccatgga	660
tcttttgggc	ccaggactgt	tgatgccttt	gagttttgta	ttcaataaac	tttttttgtc	720
tgttgaaaaa	aaaaaaaaaa	aaaaaaaaaa				749



wa01c11.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2296820 3', mRNA  
sequence.

acttccttca	ctagttacga	caaaatttaa	gaggaataac	aaatacaaat	tttctgttaa	60
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acataaattt	caaaagctgg	ttatattatg	gaataccata	tatactggcc	tttgccagtt	180
tgggatttct	gcaatagcaa	taagcctogt	ttctgtttcc	aattataaca	acaaaaagat	240
gagttactaa	tgaacattcc	acttacagaa	gtctaggcta	tgttgataaa	ttgaaaactt	300
atctagacta	ctctgtctaa	gagcaataaa	aagtaaacac	tcttttatcc	agcagcacta	360
ggaaacaggg	tgaatttacc	aagataaatt	aggttgggga	tacctactgc	caacttgtgc	420
ggttgtcgaa	ttcactgtaa	tatgtattcc	tcttattgat	agagctctga	atgtaaacia	480
ccta						484

Human 150 kDa oxygen-regulated protein ORP150 mRNA, complete cds.

ttgtgaaggg	cgcggggtggg	gggcgctgcc	ggcctcgtgg	gtacgttcgt	gccgcgtctg	60
tcccagagct	ggggccgcag	gagcggaggg	aagaggggca	ctatggcaga	caaagttagg	120
aggcagaggg	cgaggaggcg	agtctgttgg	gccttggtgg	ctgtgctctt	ggcagacctg	180
ttggcactga	gtgatacact	ggcagtgatg	tctgtggacc	tgggcagtga	gtccatgaag	240
gtggccattg	tcaaacctgg	agtgcccatg	gaaattgtct	tgaataagga	atctcggagg	300
aaaacaccgg	tgatcgtgac	cctgaaagaa	aatgaaagat	tctttggaga	cagtgcagca	360
agcatggcga	ttaagaatcc	aaaggctacg	ctacgttact	tccagcacct	cctggggaag	420
caggcagata	acccccatgt	agctctttac	caggcccgtc	tcccggagca	cgagctgact	480
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gaggaagtgt	tgggcatggt	tctcaattat	tctcgttctc	tagctgaaga	ttttgcagag	600
cagcccatca	aggatgcagt	gatcacctg	ccagtcttct	tcaaccaggc	cgagcgccga	660
gctgtgctgc	aggctgctcg	tatggctggc	ctcaaagtgc	tgcagctcat	caatgacaac	720
acccgacctg	ccctcagcta	tgggtgtctc	cgccggaaag	atattaacac	cactgcccag	780
aatatcatgt	tctatgacat	gggctcaggg	agcaccgtat	gcaccattgt	gacctaccag	840
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gaccgtaccc	tggggggcct	ggagatggag	ctccggcttc	gagaacgcct	ggctgggctt	960
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aagcctgtac	ctctggattg	gcggaagtaa	atctggaagg	attctcactc	gtattttcca	3780
cccctagtgg	ccagaggagg	gaggggcaca	gtgaagaagg	gagcccacca	cctctccgaa	3840
gaggaaagcc	acgtagagtg	gttggcatgg	ggtgccagca	tcgtgcaagc	tctgtcataa	3900
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catacctaog	cctagggagc	ccgtcctcca	gtattccgtc	tgtagcagga	gctagggctg	4260
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cacctcttct	gtatgtttga	attctttcag	tagctgttga	tgtcgggttg	acagggtttga	4440
gtcaaattgt	actttgctcc	attgttaatt	gagaaactgt	ttcaataaaa	tattcttttc	4500
tac						4503

Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds.

aagtcctca	gtccccagg	agcctccttc	atggaccgg	ggatcccaag	aggggctgcc	60
tcaacttagg	atgggcaact	gtgtcaagta	tccactgaga	aatctctcaa	ggaaggatag	120
atcactgcga	ccagaggaaa	ttgaagagct	ccgagaggcc	ttcagagaat	tcgacaagga	180
caaggatggc	tacatcaact	gccgggatct	gggcaactgc	atgcgcacca	tgggctacat	240
gcccaccgag	atggagctca	tcgaactgtc	ccagcagatc	aacatgaacc	tgggtggcca	300
tgtagatfff	gatgacttcg	tggagctaata	ggggcctaaa	ctcctggcag	agacagcaga	360
tatgattggg	gtaaaggaac	tgcgagatgc	tttccgagag	tttgacacca	atgggtgatgg	420
ggaaataagc	accagtgagc	tgcgagaggc	tatgaggaag	ctcctgggtc	atcaggtggg	480
acaccgagac	atagaggaaa	ttatccgaga	tgtggacctc	aatgggggatg	gacgagtggg	540
ctttgaagag	tttgtccgga	tgatgtccc	ctgaggccgc	gagggcccct	ccaggactgc	600
caagctccca	aaggcggggc	taagaggagc	tagagcttgc	ctcaccgcgt	gtagccgcgc	660
agagcccagg	atgtactggc	ggatggggcc	tgcctgcacc	ccggggcgga	attc	714

Homo sapiens cDNA FLJ12397 fis, clone MAMMA1002769, weakly similar to Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA.

ataagaggcg	tcattggcgc	ccgagctgtg	accgcccgcc	ctgggggcagc	cagcacaatc	60
gggcgagggt	ggcgctgccc	cttcagacct	gaaagatgtc	tgaaaattcc	agtgcacagt	120
attcatcttg	tggttggaact	gtcatcagtc	atgaggggtc	agatatagaa	atgttgaatt	180
ctgtgacccc	cactgacagc	tgtgagcccc	cccagaatg	ttcatcttta	gagcaagagg	240
agcttcaagc	attgcagata	gagcaaggag	aaagcagcca	aaatggcaca	gtgcttatgg	300
aagaaactgc	ttatccagct	ttggaggaaa	ccagctcaac	aattgaggca	gagggaacaaa	360
agataccccg	agacagtatc	tatattggaa	ctgccagtga	tgattctgat	attgttacct	420
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agagttcaga	agactttaac	atgggctctt	cctctagcag	ccagtatact	ttctgtcagc	540
cagaaactgt	atcttcatct	cagcctagt	acgatgaatc	aagtagtgat	gaaaccagta	600
atcagcccag	tctgccttt	agacgacgcc	gtgctaggaa	gaagaccgtt	tctgcttcag	660
aatctgaaga	ccggctagtt	gctgaacaag	aaactgaacc	ttctaaggag	ttgagtaaac	720
gtcagttcag	tagtggtctc	aataagtggt	ttatacttgc	tttggtgatt	gcaatcagca	780
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ctcacttctt	gtctttttgt	gggttcagga	gccctctgac	ttgtgaagaa	tttgctgccc	1860
tottaagagc	ttgctgactt	gttttcttgt	gaaatttttt	gcacatctga	atatcgtgga	1920
agaaacaata	aaactacacc	atgag				1945

hn58g08.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:3032126 3', mRNA sequence.

cattgcttta	cgtagatagt	aaactatgca	tagtatttta	tttgtaaccc	catgtgttaa	60
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acctaaaatg	tacctgtgga	gataaaacaa	gagtgttaagt	tagcaaagta	ttaaataaaa	300
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atatttcact	agtttgaaat	agtcatttca	gtgattagtc	tgaatttcta	ttgaagccta	540
agcttttg						547

Homo sapiens cDNA FLJ13465 fis, clone PLACE1003493, weakly similar to  
 ENDOTHELIAL CELL MULTIMERIN PRECURSOR.

aagacaacgt	cactagcagt	ttctggagct	acttgccaag	gctgagtgtg	agctgagcct	60
gccccaccac	caagatgatc	ctgagcttgc	tgttcagcct	tggggggcccc	ctgggctggg	120
ggctgctggg	ggcatgggcc	caggcttcca	gtactagcct	ctctgatctg	cagagctcca	180
ggacacctgg	ggctctggaag	gcagaggctg	aggacaccag	caaggacccc	gttggacgta	240
actggtgccc	ctacccaatg	tccaagctgg	tcaccttact	agctctttgc	aaaacagaga	300
aattcctcat	ccactcgcag	cagccgtgtc	cgcaggggagc	tccagactgc	cagaaagtca	360
aagtcatgta	ccgcatggcc	cacaagccag	tgtaccaggt	caagcagaag	gtgctgacct	420
ctttggcctg	gaggtgctgc	cctggctaca	cgggccccaa	ctgcgagcac	cacgattcca	480
tggcaatccc	tgagcctgca	gatcctgggtg	acagccacca	ggaacctcag	gatggaccag	540
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cccaggccat	aagaaacctg	tctcttgacg	tggaggccaa	ccgccaggcc	atctccagag	900
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aattgaagag	gctgcacaag	gctcaggagg	ccccaggagc	caatggcagt	ctggtgttgg	1140
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tacgtggctt	ccctgtaacc	acatggggct	tggccatttc	tccatgatga	gaaggactgg	3120
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aaaatggagg	caacatTTTT	gccaacattg	gaaagcacta	gagggcaatg	ggattaaacc	3420
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tgaagatgcc	ttgggttcctc	ttcactgtct	gccatgattg	taagtttccct	gaggcctccc	3780
cagccatgtg	gaacagtgg	tcaattaaac	ctctttcctt	tataaatt		3828



Homo sapiens heat shock 27kDa protein 1, mRNA (cDNA clone MGC:8509  
IMAGE:2822325), complete cds.

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ccgcctgcta aaaatacccg actggaggag cataaaagcg cagccgagcc cagcgccccg      60
cacttttctg agcagacgtc cagagcagag tcagccagca tgaccgagcg ccgcgtcccc      120
ttctcgctcc tgcggggccc cagctgggac cccttcgcgc actggtaccc gcatagccgc      180
ctcttcgacc aggccttcgg gctgccccgg ctgccggagg agtggtcgca gtggttaggc      240
ggcagcagct ggccaggcta cgtgcgcccc ctgccccccg ccgccatcga gagccccgca      300
gtggccgcgc ccgcctacag ccgcgcgctc agccggcaac tcagcagcgg ggtctcggag      360
atccggcaca ctgcggaccg ctggcgcggtg tccctggatg tcaaccactt cgccccggac      420
gagctgacgg tcaagaccaa ggatggcgtg gtggagatca ccggcaagca cgaggagcgg      480
caggacgagc atggctacat ctcccgggtg ttcacgcgga aatacacgct gccccccggt      540
gtggacccca cccaagtttc ctccctccctg tccctgagg gcacactgac cgtggaggcc      600
cccatgccca agctagccac gcagtccaac gagatcacca tcccagtcac cttcgagtcg      660
cgggcccagc ttggggggccc agaagctgca aaatccgatg agactgccgc caagtaaagc      720
cttagcccgg atgccacccc ctgctgccgc cactggctgt gcctcccccg ccacctgtgt      780
gttcttttga tacatttatc ttctgttttt ctcaaataaa gttcaaagca ccccccaaaa      840
aaaaaaaaa aaaaaaaaaa aaaaaaa                                     867

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Homo sapiens carcinoembryonic antigen (CEM2) mRNA, complete cds.

ccatgggttc	cccttcagcc	tgtccataca	gagtgtgcat	tccctggcag	gggctcctgc	60
tcacagcctc	gcttttaacc	ttctggaacc	tgccaaacag	tgcccagacc	aatattgatg	120
tcgtgccgtt	caatgtcgca	gaaggggaagg	aggtccttct	agtagtccat	aatgagtcctc	180
agaatcttta	tggctacaac	tggtacaaag	gggaaagggt	gcatgccaac	tatcgaatta	240
taggatatgt	aaaaaatata	agtcaagaaa	atgccccagg	gcccgcacac	aacggtcgag	300
agacaatata	ccccaatgga	accctgctga	tccagaacgt	taccacaat	gacgcaggat	360
tctataccct	acacgttata	aaagaaaatc	ttgtgaatga	agaagtaacc	agacaattct	420
acgtattctc	ggagccaccc	aagccctcca	tcaccagcaa	caacttcaat	ccggtggaga	480
acaaagatat	tgtgggttta	acctgtcaac	ctgagactca	gaacacaacc	tacctgtggt	540
gggtaaacaa	tcagagcctc	ctggtcagtc	ccaggctgct	gctctccact	gacaacagga	600
ccctcgttct	actcagcgcc	acaaagaatg	acataggacc	ctatgaatgt	gaaatacaga	660
aoccagtggg	tgccagccgc	agtgacccag	tcaccctgaa	tgtccgctat	gagtcagtac	720
aagcaagttc	acctgacctc	tcagctggga	ccgctgtcag	catcatgatt	ggagtactgg	780
ctgggatggc	tctgatatag	cagccttggt	g			811

Homo sapiens keratin 7, mRNA (cDNA clone MGC:3625 IMAGE:3610347), complete cds.

ctcctcctcg	cccgcgcta	ggtccatccc	ggcccagcca	ccatgtccat	ccacttcagc	60
tccccggtat	tcacctcgcg	ctcagccgcc	ttctcgggcc	gcggcgccca	ggtgcgcctg	120
agctccgctc	gccccggcgg	ccttggcagc	agcagcctct	acggcctcgg	cgctcgcgg	180
ccgcgcgtgg	ccgtgcgctc	tgcctatggg	ggcccgggtg	gcgccggcat	ccgcgaggtc	240
accattaacc	agagcctgct	ggccccgctg	cggctggacg	ccgacccctc	cctccagcgg	300
gtgcgccagg	aggagagcga	gcagatcaag	accctcaaca	acaagtttgc	ctccttcctc	360
gacaagggtgc	ggtttctgga	gcagcagaac	aagctgctgg	agaccaagtg	gacgctgctg	420
caggagcaga	agtcggccaa	gagcagccgc	ctcccagaca	tctttgaggg	ccagattgct	480
ggccttcggg	gtcagcttga	ggcactgcag	gtggatgggg	gccgcctgga	ggcggagctg	540
cggagcatgc	aggatgtggt	ggaggacttc	aagaataagt	acgaagatga	aattaaccgc	600
cgcacagctg	ctgagaatga	gtttgtggtg	ctgaagaagg	atgtggatgc	tgcctacatg	660
agcaagggtg	agctggaggc	caaggtggat	gccctgaatg	atgagatcaa	cttcctcagg	720
accctcaatg	agacggagtt	gacagagctg	cagtcccaga	tctccgacac	atctgtggtg	780
ctgtccatgg	acaacagtcg	ctccctggac	ctggacggca	tcctcgctga	ggtcaaggca	840
cagtatgagg	agatggccaa	atgcagccgg	gctgaggctg	aagcctggta	ccagaccaag	900
tttgagaccc	tccaggccca	ggctgggaag	catggggacg	acctccggaa	tacctcggaat	960
gagatttcag	agatgaaccg	ggccatccag	aggctgcagg	ctgagatcga	caacatcaag	1020
aaccagcgtg	ccaagttgga	ggccgccatt	gccgaggctg	aggagcgtgg	ggagctggcg	1080
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ggagtgggag	ccgtgaatat	ctctgtgatg	aattccactg	gtggcagtag	cagtggcggt	1320
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gcccgcgact	gagccgcctc	ccaccactcc	actcctccag	ccaccacca	caatcacaag	1500
aagattccca	cccctgcctc	ccatgcctgg	tccaagaca	gtgagacagt	ctggaaagtg	1560
atgtcagaat	agcttccaat	aaagcagcct	cattctgagg	cctgagtgat	ccacgtgaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1668

Homo sapiens hxCT mRNA for cystine/glutamate exchanger, complete cds.

cctgtgaaca	ctatagcgct	gagagagaca	gtctgaaagc	agaggaagac	atcgatcagt	60
aacaccaaga	gacaccaaag	ttgaaagttt	tgttttcttt	ccctctgttt	tatttttccc	120
ccgtgtgtcc	ctactatggt	cagaaagcct	gttgtgtcca	ccatctccaa	aggagggttac	180
ctgcagggaa	atgttaacgg	gaggctgcct	tccctgggca	acaaggagcc	acctgggcag	240
gagaaagtgc	agctgaagag	gaaagtcact	ttactgaggg	gagtctccat	tatcattggc	300
accatcattg	gagcaggaat	cttcatctct	cctaagggcg	tgctccagaa	cacgggcagc	360
gtgggcatgt	ctctgaccat	ctggacggtg	tgtggggctc	tgtcactatt	tggagctttg	420
tcttatgctg	aattgggaac	aactataaag	aaatctggag	gtcattacac	atataattttg	480
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atatgtatta	tacctgtcac	gcttctagtt	gcttcaacca	ttttataacc	atttttgtac	1920
atattttact	tgaaaatatt	ttaaatggaa	atttaaataa	acatttgata	gtttacataa	1980
taaaaaaaaa	aaaaaaaaaa					2000

Homo sapiens eukaryotic translation elongation factor 1 alpha 2, mRNA (cDNA clone MGC:8362 IMAGE:2819899), complete cds.

cactgcagcc	cccctcgccc	tgagccagag	caccccggg	cccgccagcc	cctcacactc	60
ccagcaaaat	gggcaaggag	aagacccaca	tcaacatcgt	ggtcacgccc	cacgtggact	120
ccggaaagtc	caccaccacg	ggccacctca	tctacaaatg	cggaggtatt	gacaaaagga	180
ccattgagaa	gttcgagaag	gaggcggctg	agatggggaa	gggatccttc	aagtatgcct	240
gggtgctgga	caagctgaag	gaggagcgtg	agcgcgccat	caccatcgac	atctccctct	300
ggaagttcga	gaccaccaag	tactacatca	ccatcatcga	tgcccccgcc	caccgcgact	360
tcatcaagaa	catgatcacg	ggtacatccc	aggcggactg	cgcagtgcctg	atcgtggcgg	420
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gtgacaacat	gctggagccc	tcccccaaca	tgccgtgggt	caagggctgg	aaggtggagc	720
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tgacctttgc	gcagtggaac	atcaccactg	aggtgaagtc	agtggagatg	caccacgagg	960
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gcttccgcgc	ccagcgctcg	ccacgctcag	tgcccgtttt	accaataaac	tgagcgaccc	1740
caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1781

Homo sapiens cDNA clone:HEMBA1000726, 3' end, expressed in whole embryo mainly head.

gagacggagt	ctcgctcttg	tcacccaggt	tggagtgcag	tggcacaatc	tcggctcact	60
gcaacctcca	cctcctgtgt	ttaaacgatt	ctcctgcttc	agcctcctga	gtagctggaa	120
ttacaggccc	tgccaccacc	cccccgctaa	tttttgtcta	tttttttttt	ttagtagaga	180
cgggggtttca	ccatgttggc	tagtctggtc	ttgaactcct	gactgacctc	agacgaacca	240
cccgctcag	actcccaaag	tgtcaggatt	acaggcgta	gccaccatac	ctggcctgct	300
cccagttttt	acaagatggt	aattcccaat	aatctgagag	caatgtgtta	atatgaatat	360
taattcttct	aaatgaatat	tcatccttat	ttcctacttg	tatagggtgga	tgaataaaga	420
tccaatagta	taatagaaag	actattagta	agaatgccag	aaggncagtc	tcatgcacct	480
ggtgaaataa	accaaccaac	caacctgaan	tctaaagctt	gngtggcaag	taccactgtg	540
gggaagtgtg	gaattaacnc	tcttttccta	agggtc			576

Homo sapiens MDG1 mRNA, complete cds.

tagctggctg	agaggggact	gggcgcgggc	ggggaaggag	gagcgctagg	tcggtgtacg	60
accgagatta	gggtgcgtgc	cagctccggg	aggccgcggg	gaggggcccg	gcccaagctg	120
ccgacccgag	ccgatcgtca	gggtcgccag	cgcctcagct	ctgtggagga	gcagcagtag	180
tcggagggtg	caggatatta	gaaatggcta	ctccccagtc	aattttcatc	tttgcaatct	240
gcattttaat	gataacagaa	ttaattctgg	cctcaaaaag	ctactatgat	atccttaggtg	300
tgccaaaatc	ggcatcagag	cgccaaatca	agaaggcctt	tcacaagttg	gccatgaagt	360
accaccctga	caaaaataag	agcccgcatg	ctgaagcaaa	attcagagag	attgcagaag	420
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ccaagaagcg	ttttgaaaat	catttccaga	cacgccagga	tggtaggttcc	agtagacaaa	660
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aaaatagatt	tcatggatct	agcaagcact	gcaggactgt	cactcaacga	agaggaaata	840
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aactggttga	ctcttcctca	ttatctttga	tgctaaacaa	ttttctgtga	actattttga	960
caagtgcattg	atttcacttt	aaacaatttg	atatagctat	taaatatatt	taagggtttt	1020
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cgaaatattg	ccaagagatt	gttatgtgtt	tggttccagc	ctaaaaatga	ttttgtagtgt	1560
ttgaaatcat	agctacttac	atagcttttt	catatttctt	tcttagttgt	tggcactctt	1620
aggtcttagt	atggatttat	gtgtttgtgt	gtgtgtagtt	tatcctctct	ctcatcttta	1680
tctagagatt	gactgatacc	tcattctgtt	tgtaaaacca	gccagtaatt	tctgtgcaac	1740
cttactatgt	gcaatatttt	taaatcctga	gaaatgtgtg	cttttgtttt	cggatagact	1800
tatttcttta	gttctgcact	tttccacatt	atactccata	tgagtattaa	tcctatggat	1860
acatatataa	acaagtgtct	catacaacat	tgtatgtgag	agaaatataa	atattttacaa	1920
cctgaaaaa						1929

Homo sapiens prostate stem cell antigen (PSCA) mRNA, complete cds.

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agggagagggc agtgaccatg aaggctgtgc tgcttgccct gttgatggca ggcttggccc      60
tgcagccagg cactgccctg ctgtgctact cctgcaaagc ccaggtgagc aacgagggact      120
gcctgcagggt ggagaactgc acccagctgg gggagcagtg ctggaccgcg cgcattccgcg      180
cagttggcct cctgaccgtc atcagcaaag gctgcagctt gaactgcgtg gatgactcac      240
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gcggggccca tgccctgcag ccggctgccg ccatccttgc gctgctccct gcactcggcc      360
tgctgctctg gggacccggc cagctatagg ctctgggggg ccccgctgca gcccacactg      420
ggtgtggtgc cccaggcctt tgtgccactc ctcacagaac ctggcccagt gggagcctgt      480
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tganacanat ccgcntgcag atggcccctc caaccntttt tggtgntggt tccatggccc      660
agcattttcc acccttaacc ctgtgttcag gcacttnttc cccaggaag ccttccttgc      720
ccacccatt tatgaattga gccaggtttg gtccgtggtg tcccccgac ccagcagggg      780
acaggcaatc aggagggccc agtaaaggct gagatgaagt ggactgagta gaactggagg      840
acaagagttg acgtgagttc ctgggagttt ccagagatgg ggcctggagg cctggaggaa      900
: ggggccaggc ctcacatttg tgggntccc gaatggcagc ctgagcacag cgtaggccct      960
taataaacac ctgttgata agccaaaaaa      990

```



Human arginine-rich protein (ARP) gene, complete cds.

cttcggtcct	gctgtagtgc	cttctgcgcc	aggccccggt	caatcagcgg	ccacaactgt	60
ctagggctca	gacaccacca	gccaatgagg	gagggcacgt	ggagccgcgt	ctgggctcgc	120
ggctcctgac	caatggggaa	gtggcatgtg	ggagggcgcc	ggggttcccc	ccgccaatgg	180
ggagctacgg	cgcgcgggcg	ggacttggag	gcggtgcggc	gcggcggggtg	cggttcagtc	240
ggtcggcggc	ggcagcggag	gaggaggagg	aggaggagga	tgaggaggat	gaggaggatg	300
tgggccacgc	aggggctggc	ggtgcgcgtg	gctctgagcg	tgctgccggg	cagccggggc	360
ctgcggccgg	gcgactgcga	agtttgtatt	tcttatctgg	gaagatttta	ccaggacctc	420
aaagacagag	atgtcacatt	ctcaccagcc	actattgaaa	acgaacttat	aaagtctctg	480
cgggaagcaa	gaggcaaaga	gaatcggttg	tgctactata	tcggggccac	agatgatgca	540
gccacaaaa	tcatcaatga	ggtatcaaag	cctctggccc	accacatccc	tgtggagaag	600
atctgtgaga	agcttaagaa	gaaggacagc	cagatatgtg	agcttaagta	tgacaagcag	660
atcgacctga	gcacagtgga	cctgaagaag	ctccgagtta	aagagctgaa	gaagattctg	720
gatgactggg	gggagacatg	caaaggctgt	gcagaaaagt	ctgactacat	ccggaagata	780
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cctttttgta	atattttttt	taagtgggct	cctgacaata	ctgtatcaga	tgtgaagcct	960
ggagctttcc	tgatgatgct	ggccctacag	tacccccatg	aggggattcc	cttccttctg	1020
ttgctggtgt	actctaggac	ttcaaagtgt	gtctgggatt	tttttattaa	agaaaaaaaa	1080
tttctagctg	tcaaaaaaaaa	aaa				1103

Homo sapiens interleukin 11 receptor, alpha, transcript variant 1, mRNA  
(cDNA clone MGC:2146 IMAGE:3502059), complete cds.

gggggctgta	gctggtgaga	ggaagtccta	gaggctatgg	acactctgct	gctgggatca	60
ccgagatgag	cagcagctgc	tcagggctga	gcagggctct	ggtggccgtg	gctacagccc	120
tggtgtctgc	ctcctcccc	tgcccccagg	cctggggccc	cccaggggtc	cagtatgggc	180
agccaggcag	gtccgtgaag	ctgtgttgtc	ctggagtgac	tgccggggac	ccagtgtcct	240
ggtttcggga	tggggagcca	aagctgctcc	agggacctga	ctctgggcta	gggcatgaac	300
tggtcctggc	ccaggcagac	agcactgatg	agggcacct	catctgccag	accctggatg	360
gtgcacttgg	gggcacagtg	accctgcagc	tgggctaccc	tccagcccgc	cctgttgtct	420
cctgccaaagc	agccgactat	gagaacttct	cttgcaactg	gagtcaccag	cagatcagcg	480
gtttacccac	ccgctacctc	acctcctaca	ggaagaagac	agtcctagga	gctgatagcc	540
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gctggacata	ccctgcctcc	tggccgtgcc	agccccactt	cctgctcaag	ttccgtttgc	840
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atctgtgtcc	atgtgtgacc	atgtgtctgt	gaggcaggga	acatgtattc	tctgcattga	1620
tgtatgtagg	tgcttgggga	gtgtgtgtgg	gtccttggct	cttggccttt	ccccttgcag	1680
gggttgtgca	ggtgtgaata	aagagaataa	ggaagttcct	ggaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaacctc	ggg		1783

Homo sapiens mRNA; cDNA DKFZp56402071 (from clone DKFZp56402071); complete cds

gggggcagca	ggccaagggg	gaggtgagag	cgtggacctg	ggacgggtct	gggcggctct	60
cggtggttgg	cacgggttcg	cacacccatt	caagcggcag	gacgcacttg	tcttagcagt	120
tctcgctgac	cgcgctagct	gcggcttcta	cgctccggca	ctctgagttc	atcagcaaac	180
gccctggcgt	ctgtcctcac	catgcctagc	ctttgggacc	gcttctcgtc	gtcgtccacc	240
tcctcttcgc	cctcgtcctt	gccccgaact	cccaccccag	atcgcccgcc	gcgctcagcc	300
tgggggtcgg	cgaccgggga	ggaggggttt	gaccgctcca	cgagcctgga	gagctcggac	360
tgcgagtccc	tggacagcag	caacagtggc	ttcgggcccg	aggaagacac	ggcttacctg	420
gatgggggtg	cgttgcccga	cttcgagctg	ctcagtgaac	ctgaggatga	acacttgtgt	480
gccaacctga	tgcaagctgt	gcaggagagc	ctggcccagg	cgcggtctgg	ctctcgacgc	540
cctgcgcgcc	tgctgatgcc	tagccagttg	gtaagccagg	tgggcaaaga	actactgcgc	600
ctggcctaca	gcgagccgtg	cggcctgcgg	ggggcgctgc	tggacgtctg	cgtggagcag	660
ggcaagagct	gccacagcgt	gggccagctg	gcactcgacc	ccagcctggg	gcccaccttc	720
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ctaaagtgga	ggtgggggaa	tagtgtttcc	caggaagctc	attgagttgt	gtgcgggtgg	1080
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acaaggcttc	cagctggatg	tgtgtgtagc	atgtacctta	ttatTTTTgt	tactgacagt	1200
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ctgggtcttc	catctagaac	tgtttacatg	aagataagat	actcactgtt	catgaataca	1680
cttgatgttc	aagtattaag	acctatgcaa	tatTTTTtac	ttttctaata	aacatgtttg	1740
ttaaaacaaa	aaaaaaaaaa	aaaaaaaaaa				

## Homo sapiens collagen alpha 3 type IX (COL9A3) mRNA, complete cds.

atggccgggc	cgcgcgcggtg	cgcgccgctc	ctgctcctgc	tcctcctcgg	gcagcttctg	60
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gggaagcccg	gccaggacgg	cattgacgga	gaagctggtc	ctccagggtc	gcctgggtccc	180
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ggaccccccg	gagaggcagg	agtgagcggc	cccccagggt	ggatcggcct	ccgcggtccc	420
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caggggggaa	tcggaaggga	cggcgagaag	ggtgacctg	gccccctgg	gcccgcgggc	660
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attcagtaac	ttgtttgcat	agcatttgtg	taaagactat	gatctcatcc	caataaaatg	2400
atatattaaa	tcttcagatt	aatgactggc	tacagagtaa	caaaaaataa	acaatttaata	2460
gtacagtaaa	ttctctccca					2480

Homo sapiens cDNA FLJ20113 fis, clone COL05437.

aattggcaac	ccggaagcgg	tcggtagtgc	ggcgctgttt	aaagatggcg	gcggaggaac	60
ctcagcagca	gaagcaggag	ccgctgggca	gcgactccga	aggtgttaac	tgtctggcct	120
atgatgaagc	catcatggct	cagcaggacc	gaattcagca	agagattgct	gtgcagaacc	180
ctctgggtgc	agagcggctg	gagctctcgg	tcctatacaa	ggagtatgct	gaagatgaca	240
acatctatca	acagaagatc	aaggacctcc	acaaaaagta	ctcgtacatc	cgcaagacca	300
ggcctgacgg	caactgtttc	tatcgggctt	tcggattctc	ccacttggag	gcactgctgg	360
atgacagcaa	ggagttagcag	cggttcaagg	ctgtgtctgc	caagagcaag	gaagacctgg	420
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gagctccttg	ggggcaggcc	ctcaataaat	gtgaactgct	gctgccgcca	aaaaaaaaaa	1740
aaaaaaa						1747

01763146F1 NIH\_MGC\_20 Homo sapiens cDNA clone IMAGE:4026010 5', mRNA sequence.

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gttgtgcagt	ttcatagatg	ggtcaggagg	tggacaagtg	gggccagaga	tgatggcagt	180
ccagcagcaa	ctccctgtgc	tcccttctct	ttgggcagag	attctatfff	tgacatttgc	240
acaagacagg	tagggaaagg	ggacttgtgg	tagtggacca	tacctgggga	ccaaaagaga	300
cccactgtaa	ttgatgcatt	gtggcccctg	atcttccctg	tctcacactt	cttttctccc	360
atcccggttg	caatctcact	cagacatcac	agtaccaccc	caggggtggc	agtagacaac	420
aaccagaaa	tttagacagg	gatctcttac	ctttggaaaa	taggggttag	gcatgaaggt	480
ggttgtgatt	aagaagatgg	tttgttatta	aatagcatta	aactggaatt	ga	532

Human plasma serine protease (protein C) inhibitor mRNA, complete cds.

aattccggca	gagctccggt	tcctcataga	acaaagaaca	tccaccatgc	agctcttcct	60
cctcttgtgc	ctggtgcttc	tcagccctca	gggggcctcc	cttcaccgcc	accacccccg	120
ggagatgaag	aagagagtcg	aggacctcca	tgtagggtgcc	acggtggccc	ccagcagcag	180
aagggacttt	acctttgacc	tctacagggc	cttggcttcc	gctgccccca	gccagaacat	240
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taaagctaa	tgggagacaa	gcttcaacca	caaaggcacc	caagagcaag	acttctacgt	720
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aacgctgagg	aagtggctta	agatgttcaa	aaagaggcag	ctcgagcttt	accttcccaa	960
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tttttg						2106

Homo sapiens DKFZP586A0522 protein, mRNA (cDNA clone MGC:5320  
IMAGE:2900478), complete cds.

tgagcaatgg	agcttaccat	ctttatcctg	agactggcca	tttacatcct	gacattttccc	60
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## Homo sapiens calcium binding protein 1 (calbrain), mRNA (cDNA clone

ggtaggggtgcc	tgtagaccaa	gctgctcagg	aggctgagggc	aggagaaatca	cttgaatccg	60
ggagtcagag	gttgcagtga	gccaagatca	cgccactgca	ctccagcctg	ggcgacagag	120
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aaaaaaaaaa						1868

## Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)

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gcacgtattc	aactggttat	agaaggagct	atgaatattc	atggacaggt	ggacacatgg	360
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Homo sapiens negative growth-regulatory protein MyD118 (MYD118) mRNA,  
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IMAGE:282863 3', mRNA sequence.

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Homo sapiens synaptogyrin 3, mRNA (cDNA clone MGC:20003 IMAGE:4334996), complete cds.

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cccgagctgc	gctgcgtgtt	caacgggaac	gcgggcgcc	gccgcttcgg	cgtcgcgctg	300
ggcctcggag	ccttcctcgc	ctgcgcgcgc	ttcctgctgc	tcgatgtgcg	cttcagcaa	360
atcagcagcg	tcgcgcaccg	ccggcgcgcg	gtgttgctgg	acctgggctt	ctcaggactc	420
tggctccttc	tgtggttcgt	gggcttctgc	ttcctcacca	atcagtggca	gcgcacggcg	480
ccagggcggg	ccacgacgca	ggcgggggac	gcggcgcggg	ccgccatcgc	cttcagcttc	540
ttctccatcc	tcagctgggt	ggcgctcacc	gtgaaggccc	tgacgcggtt	ccgcctgggc	600
accgacatgt	cactcttcgc	caccgaacag	ctgagcaccg	gggcgagcca	ggcctacccc	660
ggctatccgg	tgggcagcgg	cgtggagggc	accgagacct	accagagccc	gcccttcacc	720
gagaccctgg	acaccagccc	caaagggtac	cagggtgccc	cctactagcg	gctggcaggc	780
acagaccagg	gctccaaggc	cacccaccca	acgcaggccc	cagggtctcc	gggacctccc	840
ttgggtcctt	ccagctcagt	gccgcggaca	gagtaggtgg	ccgctttgcg	ccatccgggg	900
ccaagagggg	gtggaccgcg	gtgtctgggc	tgcccctgcc	aagttccccc	agtccctcag	960
cacctggccc	caggactgag	gtcctgagaa	ggggatagca	ctgcccagga	cgtgtgtccc	1020
tagcctggaa	tggactgjc	tggggaaggc	tttcccctct	tgggccacac	ctgctcactc	1080
tggggttggg	ggtccagctg	ccctctacga	tcagggtgcag	gggctgccc	ggacaaagcg	1140
ggggcagggg	aaagacacca	ccctcgcccc	aagactgggg	atcctggcca	ctgttcccat	1200
cccatgtccc	tgtgggtagt	gactgtctcg	tttctgtcat	gggtgtgcgt	cccgtccgga	1260
gccactctcc	actttctctc	acaggctgct	agaacagccc	agccctgtca	gtgttgtgat	1320
catgggtccag	tcttcggggt	tcacctccta	gtactccaca	agctgctcct	ctctctgtgg	1380
ccccggcccc	tgcccagggtg	tgggtgggtc	tggccaggaa	ggcacaagg	agctgtgggc	1440
caagacacca	gccctgtcct	agcccttcag	taagaccttg	ccaggagagg	agaaggatgc	1500
ctgggtgcca	ggcaagacaa	gcccctcagc	aggagagagg	cccagaggct	ccagctggcc	1560
accgtgcccc	acaagatggc	ccctgtgtgg	ttccctttac	cctggcttcc	tggcccagtc	1620
cctgctctc	cacctgcacc	ctgcttcctg	gcccagtcct	aggttgagg	ccctctgc	1680
agctgactac	tcatgcattg	ctcaaagctg	gcttttcaca	ttaagtcaac	accaaactgt	1740
gttgccacat	ttcatcagac	agacacctcc	ctctggagat	gcagttgagt	gacaaccttg	1800
ttacattgta	gcctagacca	attctgtgtg	gatatttaag	tgaacatgtt	tacaattttt	1860
gtatatatca	ctctctccct	ctcctgaaag	accagagatt	gtgtattttc	agtgtcccat	1920
gttccgactg	caccttcttt	acaataaaga	ctgtaactga	gctgactgtg	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaa					1996

Human 14 kd lectin mRNA, complete cds.

cttctgacag	ctgggtgcgcc	tgcccgggaa	catectcctg	gactcaatca	tggcttgtgg	60
tctgggtcgcc	agcaacctga	atctcaaacc	tggagagtgc	cttcgagtgc	gaggcgaggt	120
ggctcctgac	gctaagagct	tcgtgctgaa	cctgggcaaa	gacagcaaca	acctgtgcct	180
gcacttcaac	cctcgcttca	acgcccacgg	cgacgccaac	accatcgtgt	gcaacagcaa	240
ggacggcggg	gcctggggga	ccgagcagcg	ggaggctgtc	tttcccttcc	agcctggaag	300
tgttgacag	gtgtgcatca	ccttcgacca	ggccaacctg	accgtcaagc	tgccagatgg	360
atacgaattc	aagttcccca	accgcctcaa	cctggaggcc	atcaactaca	tggcagctga	420
cgggtgacttc	aagatcaaat	gtgtggcctt	tgactgaaat	cagccagccc	atggccccca	480
ataaaggcag	ctgcctctgc	tcccctg				507

Homo sapiens monocarboxylate transporter 2 (MCT2) mRNA, complete cds.

cgggcgccca	ccctgcgcca	gagaccagat	aaagatcaat	cttaagatgt	gatactttcc	60
tgtgaaacct	gaaacaaggt	gatctgggga	accaaagact	ctgggactct	tggtgccaac	120
agagttactc	tgttacttga	atttccacta	gaggagcaga	aatgccacca	atgccaaagt	180
ccccacctgt	gcattccacct	ccagatggag	gatgggggtg	gattgtgggt	ggagcaactt	240
ttatctccat	tggattttcc	tatgcattcc	ccaaagctgt	caccgtattc	ttcaaagaaa	300
ttcagcaaat	attccacact	acctacagt	aaatagcatg	gatttcatcc	attatgctgg	360
ctgttatgta	cgcaggaggt	cctgtaagta	gtgttttggg	gaataaatac	ggcagccggc	420
cgggtgggat	agcaggaggc	ttattatgct	gtcttggaat	gggtgtggcc	tccttttagta	480
gcagcgtggg	acagctgtac	ctcactatgg	gattcattac	aggttttaggt	ttagccttca	540
acctgcaacc	cgccttaacc	ataattggca	aatacttcta	taggaagcga	cccatggcaa	600
atggattggc	catggcagga	aatcctgttt	tcttaagtcc	attggctcct	ttcaatcagt	660
acctttttaa	tacttttggc	tggaaaaggaa	gcttcctgat	tttgggaagt	ctacttttga	720
atgcctgtgt	ggctgggtcc	ctcatgagac	cccttggaac	caatcaaacc	acttctaagt	780
ctaaaaataa	gactggcaaa	acagaagatg	attcaagccc	aaagaaaatc	aaaacgaaga	840
aatcaacttg	ggaaaaagtt	aataagtatt	tagattttctc	cctttttaag	catagaggat	900
ttctgatata	tctgtctgga	aatgtcatta	tgttcctagg	tttttttgcc	cccattatat	960
tcccggctcc	atatgctaaa	gaccaaggaa	ttgatgagta	ctcggcagct	tttctgctat	1020
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gtcacctctt	gtgccactg	gcacaggact	acacaagcct	ggattatat	gctgtatttt	1200
ttggccttgg	atttgggagt	gttagcagtg	ttctctttga	aactctcatg	gacctcgtgg	1260
gtgcaccaag	attttccagt	gccgtcggac	ttgtcacaat	tgtggagtgt	ggcccagttc	1320
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acatgtcctg	tggggctatt	gtggtagcag	caagcgtgtg	gctgctcatt	ggcaatgcta	1440
tcaactatag	attgottgca	aaggaaaagg	aggaggaaaa	tgcaaggcag	aagaccagag	1500
aatctgaacc	cttgagcaaa	tctaaacatt	cggagatgt	taacgtcaaa	gtttcaaagt	1560
cacagagtgt	aacctcagaa	agagaaacta	acatttaaca	agaatcacat	ctctgatttc	1620
agtgtttatg	actttatcta	ggagtgtgtt	tttcattttg	tttttttaaa	gtattagaaa	1680
aggttttagc	tgaaatgagg	agtcacaatt	aaggatggag	gtgatatttt	cctcaatggc	1740
aatttttaaa	tagtttttaa	aaacttactt	atttgggtag	ttaaattttg	agattatgca	1800
tagaaagaat	ccatgctata	ggtttatatt	catacctgac	tctgggtgtg	gtgggttaaaa	1860
tactaatatt	aaagtcttcc	agtgaacttt	ggctcttggt	atatgga		1907

H.sapiens mRNA for gonadotropin-releasing hormone receptor, splice variant.

atggcaaaca	gtgcctctcc	tgaacagaat	caaaatcact	gttcagccat	caacaacagc	60
atcccaactga	tgcagggcaa	cctcccccact	ctgaccttgt	ctggaaagat	ccgagtgacg	120
gttacttttct	tccttttttct	gctctctgcg	acctttaatg	cttcttttctt	gttgaaactt	180
cagaagtgga	cacagaagaa	agagaaaggg	aaaaagctct	caagaatgaa	gctgctctta	240
aaacatctga	ccttagccaa	cctgttggag	actctgattg	tcatgccact	ggatgggatg	300
tggaacatta	cagtccaatg	gtatgctgga	gagttactct	gcaaagttct	cagttatcta	360
aagcttttct	ccatgtatgc	cccagccttc	atgatggtgg	tgatcagcct	ggaccgctcc	420
ctggctatca	cgaggccctt	agctttgaaa	agcaacagca	aagtcggaca	gtccatgggt	480
ggcctggcct	ggatcctcag	tagtgtcttt	gcaggaccac	agctgcctct	tcatcatccc	540
tcttttcatc	atgctgatct	gcaatgcaaa	aatcatcttc	accctgacac	gggtccttca	600
tcaggacccc	cacgaactac	aactgaatca	gtccaagaac	aatataccaa	gagcacggct	660
gaagactcta	aaaatgacgg	ttgcatttgc	cacttcattt	actgtctgct	ggactcccta	720
ctatgtccta	ggaatttggt	attggtttga	tcctgaaatg	ttaaacaggt	tgtcagaccc	780
agtaaatcac	ttcttctttc	tctttgcctt	tttaaaccac	tgctttgatc	cacttatcta	840
tggatatttt	tctctgtga					859

Homo sapiens midline 1 (MID1) mRNA, complete cds.

cttttttttg	ccggggccgca	tgaatccggc	cagcccaccc	tgcttgaagg	acctacaggt	60
ttgtctcttc	cagatcagaa	ctgaggaaca	aaaaccccc	tcctgggaaa	aatggggaag	120
ctgatttcgc	cgggttgctt	ttgtcttgcg	ggctcctgtc	gggttcgggtg	tttccgctct	180
gaagactgcg	acgcgggctc	cgatgcagct	cgctccctgc	cggatgggtc	atgggattct	240
aaacatgagg	cagatagctg	atcagcttcc	ttgggttttg	ctgatgacac	aagagagctt	300
tgcttgaaga	tggaaacact	ggagtcagaa	ctgacctgcc	ctatttgtct	ggagctcttt	360
gaggaccctc	ttctactgcc	ctgcgcacac	agcctctgct	tcaactgcgc	ccaccgcatc	420
ctagtatcac	actgtgccac	caacgagctc	gtggagtcca	tcaccgcctt	ccagtgtccc	480
acctgccggc	atgtcatcac	cctcagccag	cgaggtctag	acgggctcaa	gcgcaacgtc	540
accctacaga	acatcatcga	caggttccag	aaagcatcag	tgagcgggcc	caactctccc	600
agcgagaccc	gtcgggagcg	ggcctttgac	gccaacacca	tgacctccgc	cgagaagggtc	660
ctctgccagt	tttgtgacca	ggatcctgcc	caggacgctg	tgaagacctg	tgtcacttgt	720
gaagtatcct	actgtgacga	gtgcctgaaa	gccactcacc	cgaataagaa	gccctttaca	780
ggccatcgct	tgtactgccc	aattccggac	tctcacatcc	gggggctgat	gtgcttggag	840
catgaggatg	agaagggtgaa	tatgtactgt	gtgaccgatg	accagttaat	ctgtgccttg	900
tgtaaactgg	tggggcggca	ccgcgatcat	cagggtggcag	ctttgagtga	gcgctatgac	960
aaattgaagc	aaaacttaga	gagtaacctc	accaacctta	ttaagaggaa	cacagaactg	1020
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caagaagcca	aattgacaga	ggagtgtgat	cttctcattg	agatcattca	gcaaagacga	1140
cagattattg	gaaccaagat	caaagaaggg	aagggtgatga	ggcttcgcaa	actggctcag	1200
cagattgcaa	actgcaaaca	gtgcattgag	cggtcagcat	cactcatctc	ccaagcggaa	1260
cactctctga	aggagaatga	tcatgcgcgt	ttcctacaga	ctgctaagaa	tatcaccgag	1320
agagtctcca	tggcaactgc	atcctcccag	gttctaattc	ctgaaatcaa	cctcaatgac	1380
acatttgaca	cctttgcctt	agatttttcc	cgagagaaga	aactgctaga	atgtctggat	1440
taccttacag	ctcccaaccc	tcccacaatt	agagaagagc	tctgcacagc	ttcatatgac	1500
accatcactg	tgcatctggc	ctccgatgat	gagttcagcg	tggctctccta	cgagctccag	1560
tacaccatat	tcaccggaca	agccaacgtc	gttagtctgt	gtaattcggc	tgatagctgg	1620
atgatagtac	ccaacatcaa	gcagaaccac	tacacgggtg	acggctcgca	gagcggcacc	1680
aagtacatct	ctatggctaa	ggccatcaac	caggcgggca	gccgcagcag	tgagctggg	1740
aagttgaaga	caaacagcca	accattttaa	ctggatccca	aatctgctca	tcgaaaactg	1800
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gcttacaat	cagccccgaa	gcatgaatgg	attgggaaga	actctgcttc	ctgggcgctc	2040
tgccgctgca	acaataactg	gggtggtgaga	cacaatagca	aggaaatccc	cattgagcct	2100
gccccccacc	tccggcgctg	gggcatcctg	ctggactatg	ataacggctc	tatcgccctt	2160
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ttaatattgaa	gtgtttta	tgtgatgtca	aaaagttgta	tcagatcaac	taaaatggag	2880
agcaagacag	agaatgaaaa	gagttgattt	tggacctcgg	accttgccgt	ggctaaatct	2940
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attttgacct	gcttctctca	gggttaaggg	ttctggaaga	acattaagaa	tgagatgcaa	3060
ttgaaaatag	tcattttgaa	tcctattgat	tattcaaaaa	ttcaggctga	ttgtctttta	3120
tcagaggtag	gattctgttt	tatagtatag	aatctacttt	atcccttcct	tttaatagtt	3180
ccttttagacc	tgtgaaat	cttcactaca	tttaatagtt	ctcctatttc	ccgctcccc	3240

atatcaattt	tccttttgtc	tcgggggctg	agtaaataaa	catgttctgt	cacaaatagc	3300
agcaccactt	tggattgatt	ttgctctcca	ggacatcagc	acatggccct	gatcagcact	3360
accacatcca	aacataagtc	actgaaaaac	acttaatt	tatgagttgg	taatgacaag	3420
ggacattgta	taaagtacta	tttgctagat	tcatgcctca	aaagttatta	taaacagacc	3480
tttattaaac	acatcttgaa	agatgtagaa	gtccctctat	agtctagtat	agtttacaat	3540
agagttgtaa	gaccaaaaaa	aaaaaaaaaa	aaaaa			3575

Homo sapiens IL-1 receptor accessory protein mRNA, complete cds.

tctcaaagga	tgacacttct	gtggtgtgta	gtgagtctct	acttttatgg	aatcctgcaa	60
agtgatgcct	cagaacgctg	cgatgactgg	ggactagaca	ccatgaggca	aatccaagtg	120
tttgaagatg	agccagctcg	catcaagtgc	ccactctttg	aacacttctt	gaaattcaac	180
tacagcacag	cccattcagc	tggccttact	ctgatctggg	attggactag	gcaggaccgg	240
gaccttgagg	agccaattaa	cttccgcctc	cccgagaacc	gcattagtaa	ggagaaagat	300
gtgctgtggt	tccggcccac	tctcctcaat	gacactggca	actataacctg	catgttaagg	360
aacactacat	attgcagcaa	agttgcattt	cccttggaag	ttgttcaaaa	agacagctgt	420
ttcaattccc	ccatgaaact	cccagtgcat	aaactgtata	tagaatatgg	cattcagagg	480
atcacttgtc	caaagttaga	tggatatttt	ccttccagtg	tcaaaccgac	tatcacttgg	540
tatatgggct	gttataaaat	acagaatttt	aataatgtaa	taccgaagg	tatgaacttg	600
agtttcctca	ttgccttaat	ttcaaataat	ggaaattaca	catgtgttgt	tacatatcca	660
gaaaatggac	gtacgtttca	tctcaccagg	actctgactg	taaaggtagt	aggctctcca	720
aaaaatgcag	tgccccctgt	gatccattca	cctaattgatc	atgtggtcta	tgagaaagaa	780
ccaggagagg	agctactcat	tccctgtacg	gtctatttta	gttttctgat	ggattctcgc	840
aatgaggttt	ggtggaccat	tgatggaaaa	aaacctgatg	acatcactat	tgatgtcacc	900
attaacgaaa	gtataagtca	tagtagaaca	gaagatgaaa	caagaactca	gattttgagc	960
atcaagaaa	ttacctctga	ggatctcaag	cgcagctatg	tctgtcatgc	tagaagtgcc	1020
aaaggcgaag	ttgccaaagc	agccaagggtg	aagcagaaag	tgccagctcc	aagatacaca	1080
gtggaactgg	cttgtgggtt	tggagccaca	gtcctgctag	tgggtgattct	cattgttggt	1140
taccatgttt	actggctaga	gatggctcta	ttttaccggg	ctcatttttg	aacagatgaa	1200
accatttttag	atggaaaaga	gtatgatatt	tatgtatcct	atgcaaggaa	tgcggaagaa	1260
gaagaatttg	tattactgac	cctccgtgga	gttttggaga	atgaatttgg	atacaagctg	1320
tgcatctttg	accgagacag	tctgcctggg	ggaattgtca	cagatgagac	tttgagcttc	1380
attcagaaaa	gcagacgcct	cctgggttgtt	ctaagcccca	actacgtgct	ccagggaacc	1440
caagccctcc	tggagctcaa	ggctggccta	gaaaatatgg	cctctcgggg	caacatcaac	1500
gtcatttttag	tacagtacaa	agctgtgaag	gaaacgaagg	tgaaagagct	gaagagggct	1560
aagacgggtgc	tcacgggtcat	taaatggaaa	ggggaaaaat	ccaagtatcc	acagggcagg	1620
ttctggaagc	agctgcaggt	ggccatgcca	gtgaagaaaa	gtcccaggcg	gtctagcagt	1680
gatgagcagg	gcctctcgta	ttcatctttg	aaaaatgtat	gaaaggaata	atgaaaagga	1740

## Homo sapiens clone FLB0708 mRNA sequence.

ccaagaggtg	ggaacaatct	aaatgtccaa	cagatgaatg	aattttttaa	aagtgggtata	60
tatacataca	ttgagatatt	attcagcctt	aaaaaagaag	aaaaatcatg	gccggggcgcg	120
gtgggtcacg	cctgtaatcc	cagcactttg	ggaggccgag	acgagcgaat	cacgaggtca	180
ggagatggag	accatcctca	ttaacatggg	gaaactctgt	ctctactaaa	aatacaaaaa	240
aattagccgg	gtttagtggg	gggcgcctgt	agtcccagct	actcaggagg	ctgaggcagg	300
agaatggcat	gaaccggga	ggcggagctt	gcagtgaacc	gagatcgcg	cactgcactc	360
cagcctgggc	gacagagcga	gactccgtct	gaaaaaaaaa	aaaaggga	aatcctgcca	420
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agacaaatat	tatatgattc	cactcacatg	aagtatcaag	taatcaaact	cacagaaaaa	540
gaaagtaaaa	ttgtggttgc	caatggttca	gggtgaaaaa	aaggaggtta	gtgtttaatg	600
ggtaagaggt	tcagtttcgc	aagacaaaag	atctctggat	atctgttgca	caacagtatg	660
agtataatta	atgctacaga	actgttagaa	aagagtctct	ttcagattta	gatactagaa	720
aatgtatgag	taaaatacga	tgtctgaaat	ttgctttcaa	ataatctgaa	ggctgggttg	780
ggaagtgtgt	ggagtcatac	atgaaataaa	actgggtatta	gttgacaatc	cttaaaactg	840
agtgggttta	ttataaccatt	ctctctctac	ttttgtgtat	gtttgaaatt	ttccatcata	900
aaggagtttt	taaaaaccca	acattatcaa	aatgaaaaat	aatcaataca	agtgctggat	960
aagaaagtca	aggaaatatc	acagaatgta	taatttaaaa	gatttgctga	ggtgtgtgta	1020
tcacctgagc	tcaggagttc	gagactagcc	tggccaaaat	ggcataaccc	catctctaca	1080
taaaatacaa	aaatcagctg	ggaacactgg	tgcacacctg	tagtctcagc	tactcaggag	1140
gctgagacac	gagaatcact	tgaaccagg	aggcagaggt	tgcagtgagc	tgagatcacg	1200
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gagaatgcag	ttaaaaagga	catgtcccg	gggattcgac	tacacttctc	aaagtgtact	1320
gctggccctc	tgtatccatg	ggttctgcat	ctgtagattc	gatcaactca	actcctggct	1380
caatactgat	ggaagtaatc	tgcttaacaa	tctcagaagg	actgtgcaag	tcaatgagtc	1440
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